

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081618\
 Data File : VL032378.D
 Acq On : 16 Aug 2018 14:23
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:52:58 PM

Quant Time: Aug 28 13:42:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 28 2018
 QLast Update : Tue Aug 28 13:07:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1456354	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3223341	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	3383385m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.65	95	2543265	9.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.11	85	1440465	9.70	ppbv	97
3) Chlorodifluoromethane	3.05	51	1290910	9.57	ppbv	96
4) Chloromethane	3.21	50	729650	9.09	ppbv	99
5) Vinyl Chloride	3.33	62	729288	9.53	ppbv	97
6) Bromomethane	3.55	94	432096	10.53	ppbv	97
7) Chloroethane	3.64	64	269321	10.03	ppbv	98
8) Dichlorotetrafluoroethane	3.26	85	1568217	9.53	ppbv	99
9) Propene	3.07	41	571762	9.90	ppbv	100
10) Heptane	8.31	43	1868617	10.75	ppbv	98
11) Trichlorofluoromethane	4.05	101	1605058	9.85	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.60	101	1048171	9.56	ppbv	99
13) Ethanol	3.69	45	173601	11.71	ppbv	99
14) Bromoethene	3.83	108	490783	10.35	ppbv	99
15) Acetone	3.95	43	1244794	9.00	ppbv	97
16) 1,3-Butadiene	3.40	39	608242	10.65	ppbv	88
17) tert-Butyl alcohol	4.41	59	259080	11.16	ppbv	99
18) 1,1-Dichloroethene	4.40	96	510210	9.98	ppbv	97
19) Isopropyl Alcohol	4.06	45	1015007	10.89	ppbv	99
20) Methylene Chloride	4.46	84	455411	8.71	ppbv	97
21) Allyl Chloride	4.52	41	924768	10.59	ppbv	93
22) trans-1,2-Dichloroethene	5.01	96	522661	10.14	ppbv	98
23) Vinyl Acetate	5.21	43	2461570	10.30	ppbv	98
24) 1,1-Dichloroethane	5.14	63	1694237	9.82	ppbv	100
25) Ethyl Acetate	5.82	43	2946560	9.94	ppbv	100
26) Hexane	5.83	57	1346911	10.19	ppbv	99
27) Carbon Disulfide	4.67	76	1331835	10.79	ppbv	98
28) Methyl tert-Butyl Ether	5.16	73	2031104	11.58	ppbv	98
29) Chloroform	5.90	83	2183358	11.27	ppbv	98
30) Cyclohexane	7.31	84	1135259	11.27	ppbv	97
31) cis-1,2-Dichloroethene	5.69	61	1259336	9.74	ppbv	98
32) 1,1,1-Trichloroethane	6.68	97	2127646	11.29	ppbv	99
34) 2-Butanone	5.38	43	1808195	8.24	ppbv	100
35) Carbon Tetrachloride	7.20	117	2113973	11.12	ppbv	98
36) Benzene	7.06	78	2895906	10.60	ppbv	100
37) 1,2-Dichloroethane	6.47	62	1573004	9.49	ppbv	98
38) Trichloroethene	8.02	130	987646	10.30	ppbv	99
39) 1,2-Dichloropropane	7.80	63	1116696	9.78	ppbv	99
40) 1,4-Dioxane	8.02	88	385502	11.12	ppbv	94
41) Tetrahydrofuran	6.20	42	1257986	10.68	ppbv	98
42) Bromodichloromethane	7.98	83	2345076	10.80	ppbv	96
43) Methyl Methacrylate	8.20	69	1191093	10.94	ppbv	100

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Manual Integrations
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Quant Time: Aug 28 13:42:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 28 2018
 QLast Update : Tue Aug 28 13:07:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	5012289	10.17	ppbv	99
45) t-1,3-Dichloropropene	9.48	75	1711481	12.43	ppbv	95
46) cis-1,3-Dichloropropene	8.90	75	1987052	12.03	ppbv	96
47) 1,1,2-Trichloroethane	9.68	97	1233679	9.82	ppbv	96
48) Dibromochloromethane	10.52	129	1857105	11.06	ppbv	99
49) Bromoform	13.27	173	1483389	10.63	ppbv	100
50) 4-Methyl-2-Pentanone	8.93	43	3269203	10.32	ppbv	100
51) 2-Hexanone	10.33	43	2682306	12.06	ppbv #	99
52) Tetrachloroethene	11.44	164	851281	10.56	ppbv	95
53) Toluene	10.01	91	3488547	11.65	ppbv	99
54) 1,2-Dibromoethane	10.83	107	1724796	10.69	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.34	131	1288997	9.21	ppbv	99
57) Chlorobenzene	12.37	112	2278849	8.95	ppbv	99
58) Ethyl Benzene	12.93	91	4269769	10.49	ppbv	99
59) m/p-Xylene	13.22	91	6850280m	19.81	ppbv	
60) o-Xylene	13.92	91	3344750	9.84	ppbv	98
61) Styrene	13.76	104	2601303	10.95	ppbv	99
62) Isopropylbenzene	14.89	105	4754023	9.83	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.91	83	2450721	8.57	ppbv	99
64) n-propylbenzene	15.79	120	1223717	9.77	ppbv	93
65) tert-Butylbenzene	16.98	119	3956768	9.57	ppbv	99
66) Benzyl Chloride	17.22	91	2673810	10.93	ppbv	99
67) sec-Butylbenzene	17.53	105	5950398	9.68	ppbv	99
69) p-Isopropyltoluene	17.88	119	4731205	10.06	ppbv	99
70) n-Butylbenzene	18.78	91	5200035	10.08	ppbv	99
71) 2-Chlorotoluene	15.68	91	3829664	10.23	ppbv	99
72) 4-Ethyltoluene	16.07	105	3971773	10.48	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	3779564	10.37	ppbv	100
74) 1,2,4-Trimethylbenzene	17.00	105	3728334	9.61	ppbv	94
75) 1,3-Dichlorobenzene	17.24	146	2080013	8.92	ppbv	100
76) 1,4-Dichlorobenzene	17.38	146	2091702	9.47	ppbv	99
77) 1,2-Dichlorobenzene	18.05	146	2046647	9.19	ppbv	99
78) Hexachloro-1,3-Butadiene	23.61	225	1294479	17.31	ppbv	100
79) Naphthalene	22.49	128	3655844	12.91	ppbv	99
80) Naphthalene, 2-methyl-	25.16	142	1541116	19.91	ppbv	99
81) 1,2,4-Trichlorobenzene	22.21	180	1719526	11.46	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

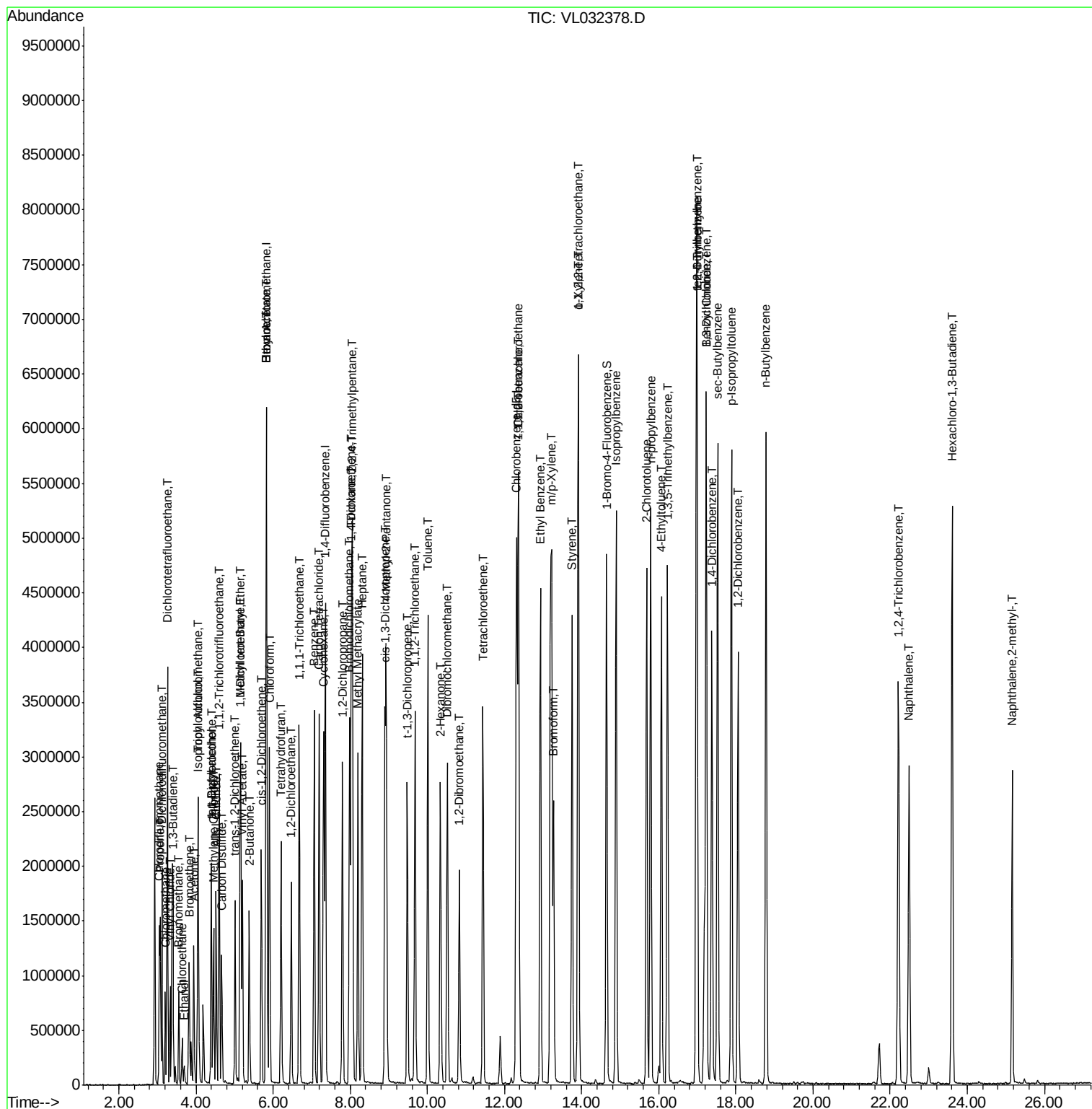
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081618\
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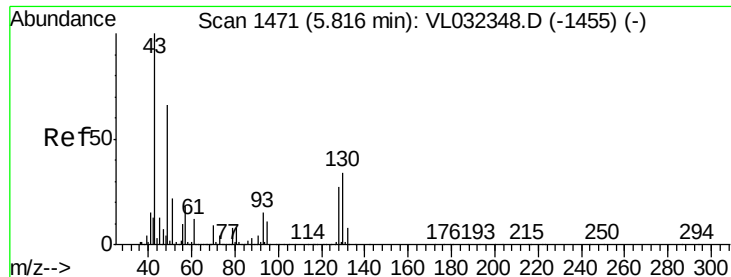
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Aug
QLast Update : Tue Aug 28 13:07:12 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1456354

Ion Ratio Lower Upper

49 100

128 42.3 20.5 61.6

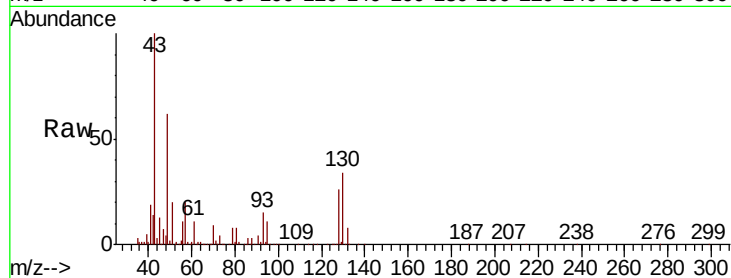
130 53.7 26.2 78.5

Manual Integrations

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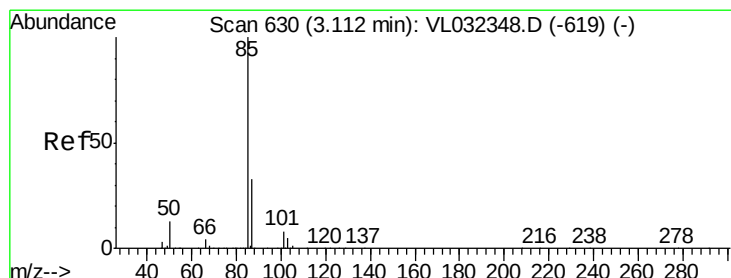
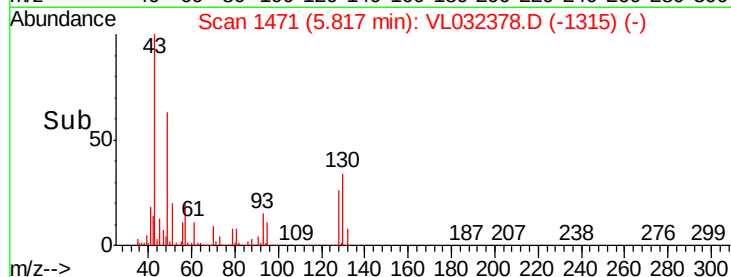
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.82

Time-->



#2

Dichlorodifluoromethane

Concen: 9.70 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032378.D

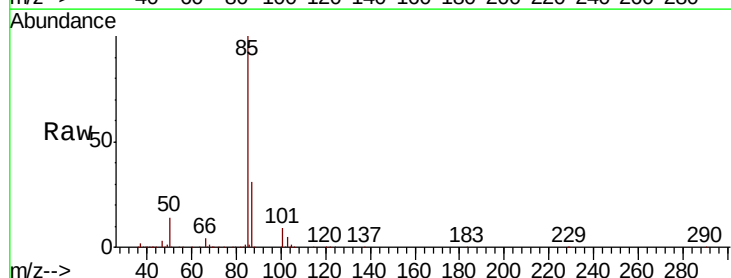
Acq: 16 Aug 2018 14:23

Tgt Ion: 85 Resp: 1440465

Ion Ratio Lower Upper

85 100

87 31.1 26.3 39.5

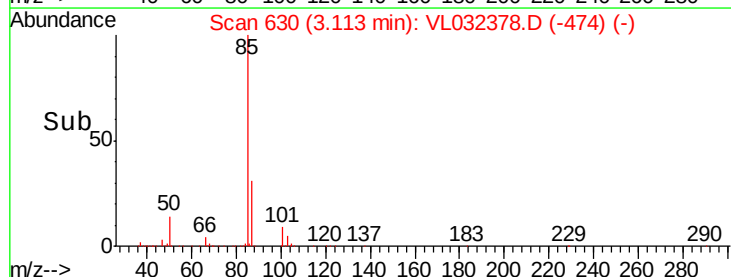


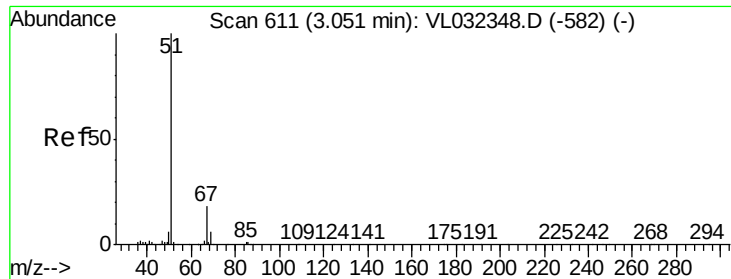
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.11

Time-->





#3

Chlorodifluoromethane

Concen: 9.57 ppbv

RT: 3.05 min Scan# 610

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 1290910

Ion Ratio Lower Upper

51 100

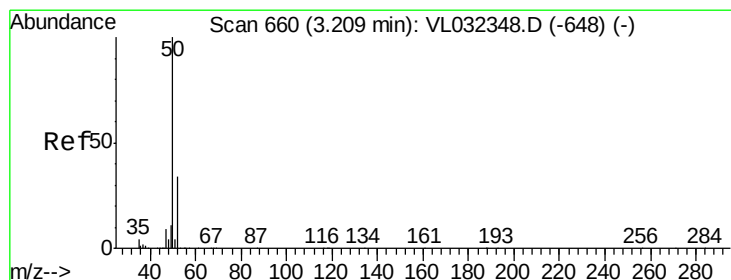
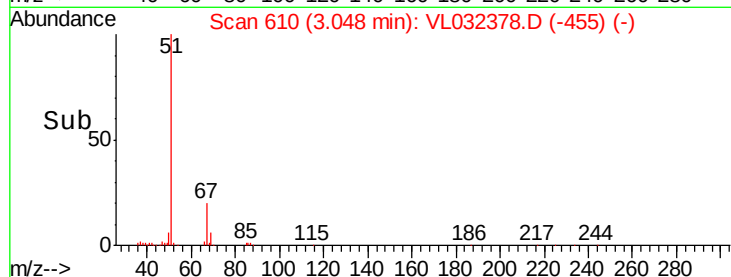
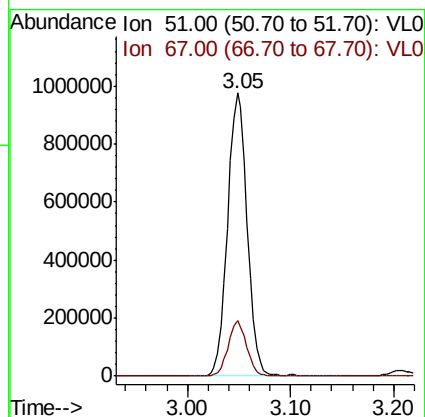
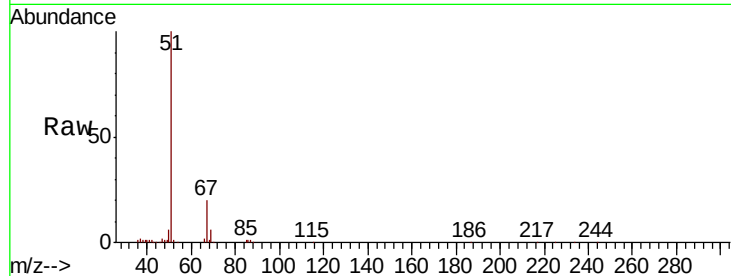
67 18.7 13.7 20.5

Manual Integrations

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#4

Chloromethane

Concen: 9.09 ppbv

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL032378.D

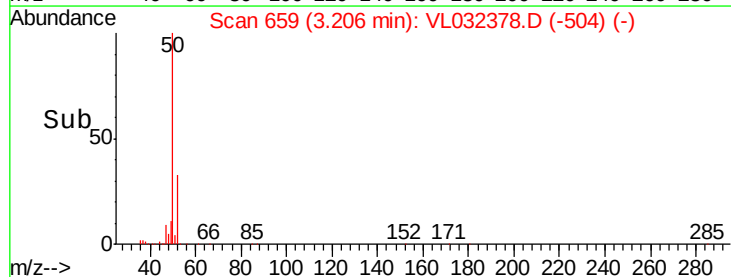
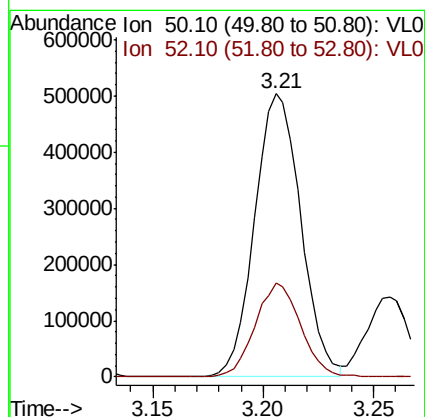
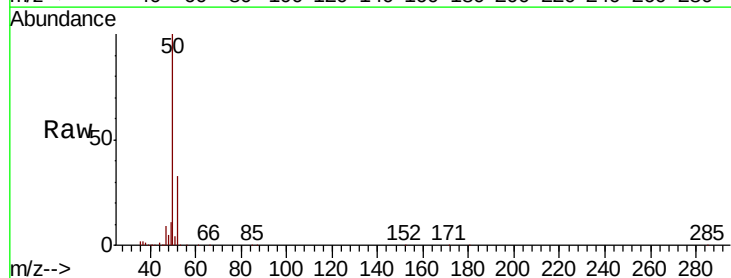
Acq: 16 Aug 2018 14:23

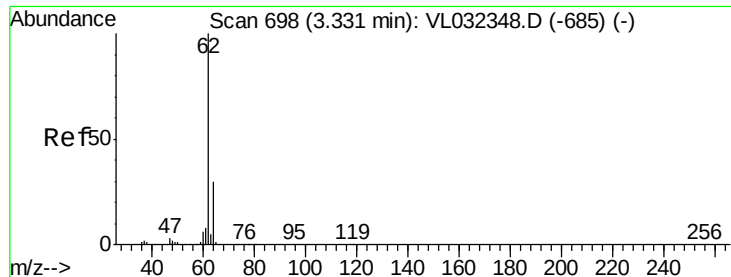
Tgt Ion: 50 Resp: 729650

Ion Ratio Lower Upper

50 100

52 33.1 26.8 40.2





#5

Vinyl Chloride

Concen: 9.53 ppbv

RT: 3.33 min Scan# 697

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 729288

Ion Ratio Lower Upper

62 100

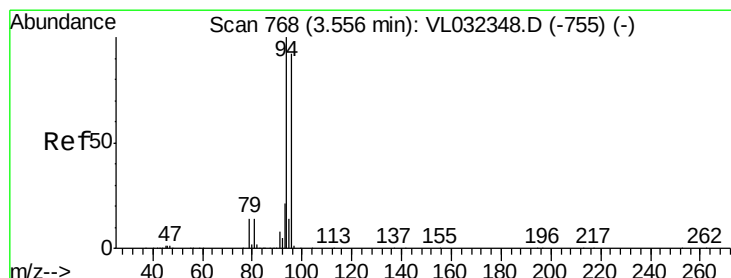
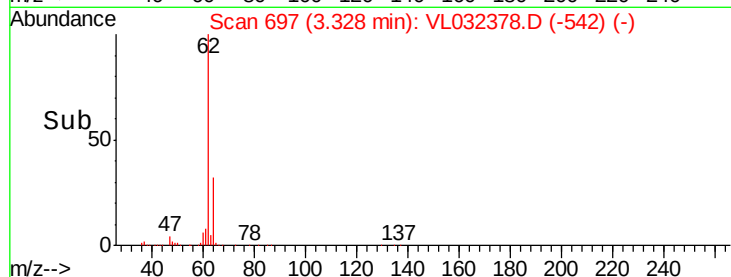
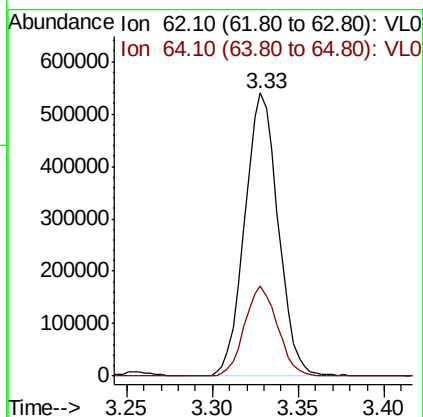
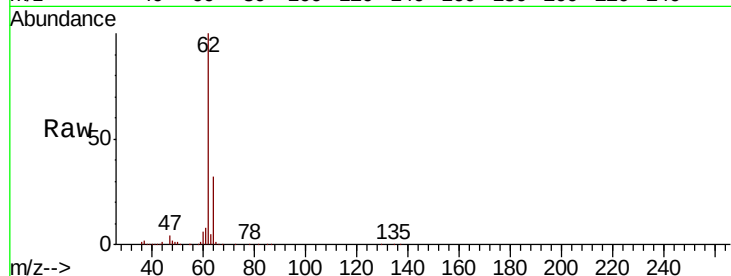
64 31.7 24.2 36.2

Manual Integrations

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#6

Bromomethane

Concen: 10.53 ppbv

RT: 3.55 min Scan# 767

Delta R.T. -0.00 min

Lab File: VL032378.D

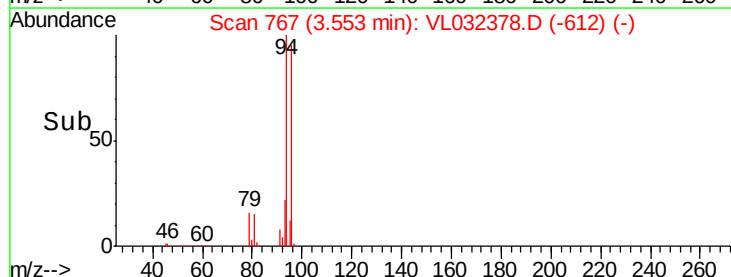
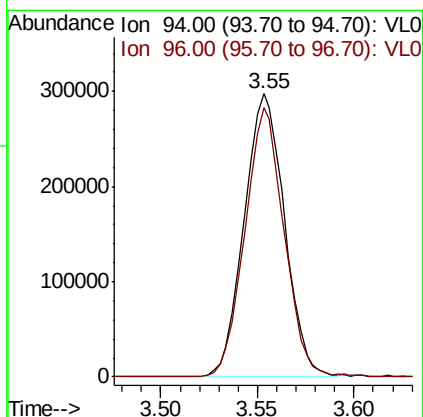
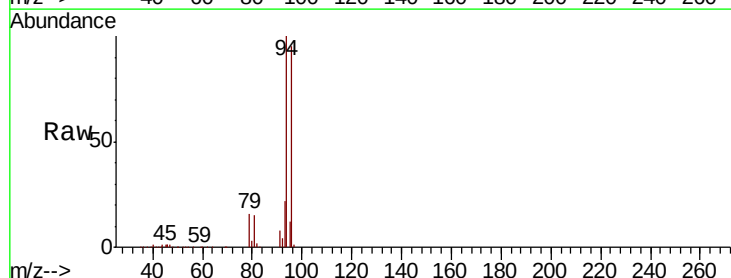
Acq: 16 Aug 2018 14:23

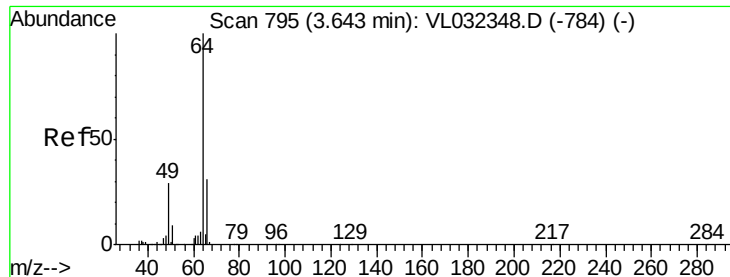
Tgt Ion: 94 Resp: 432096

Ion Ratio Lower Upper

94 100

96 95.2 73.7 110.5





#7

Chloroethane

Concen: 10.03 ppbv

RT: 3.64 min Scan# 794

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 269321

Ion Ratio Lower Upper

64 100

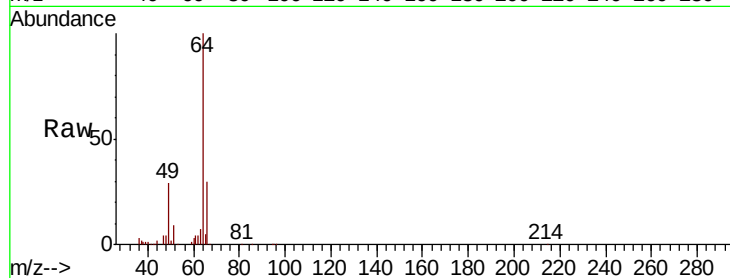
66 29.8 24.6 36.8

Manual Integrations

APPROVED

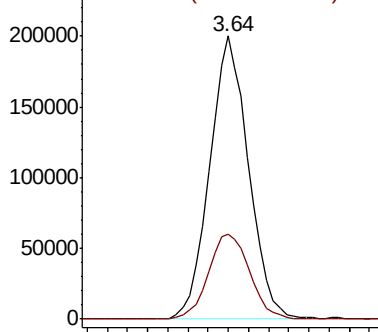
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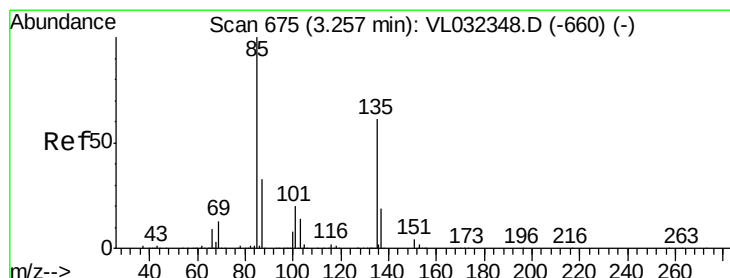
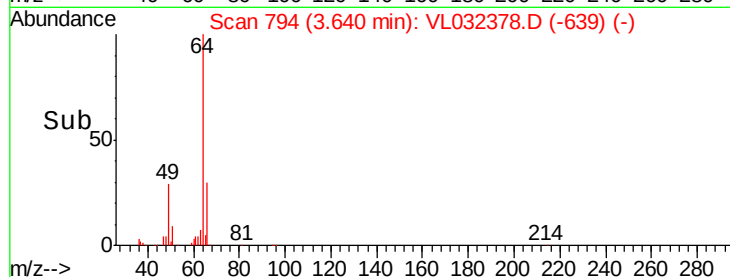


Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.53 ppbv

RT: 3.26 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL032378.D

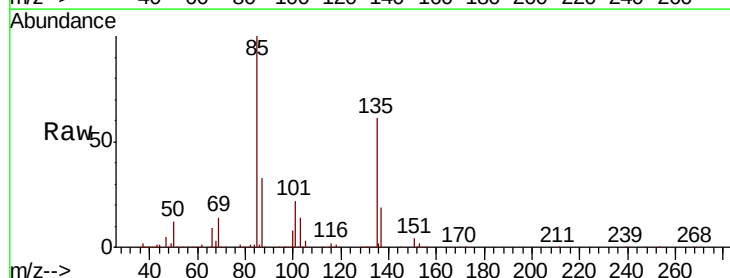
Acq: 16 Aug 2018 14:23

Tgt Ion: 85 Resp: 1568217

Ion Ratio Lower Upper

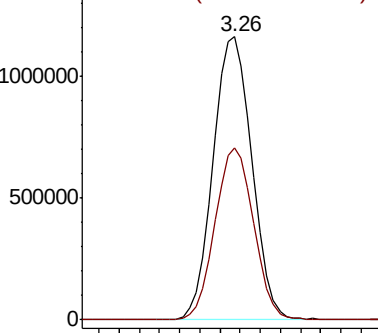
85 100

135 60.6 49.0 73.6

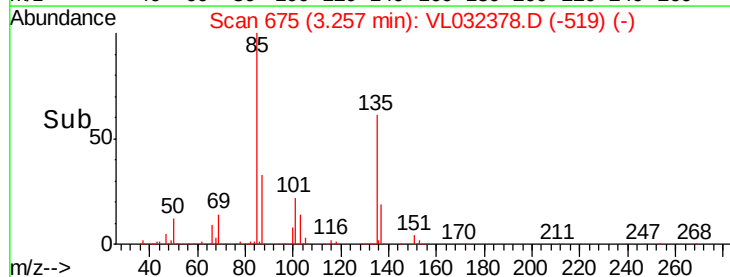


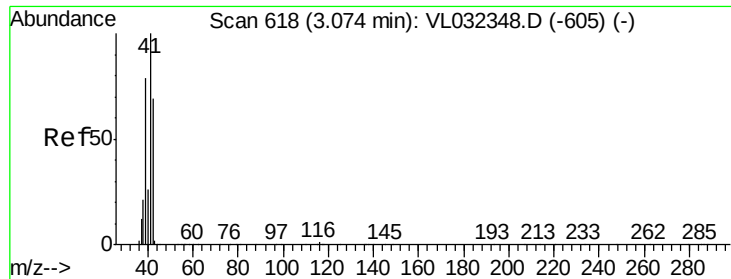
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



Time-->





#9

Propene

Concen: 9.90 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 571762

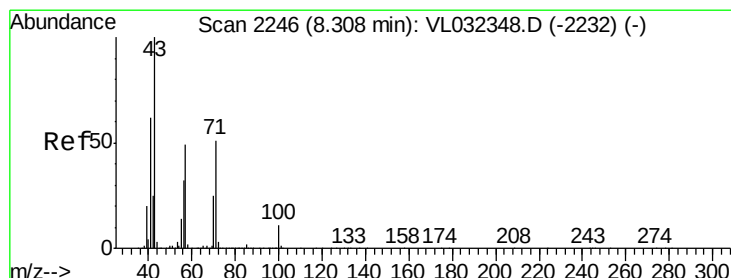
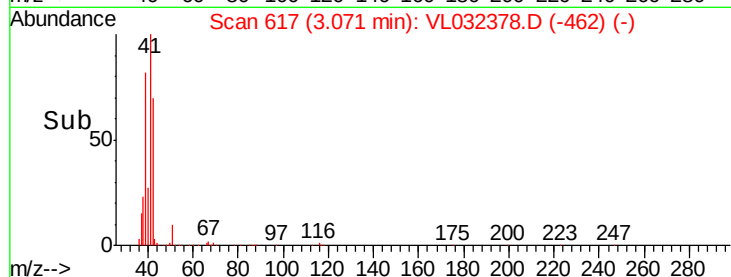
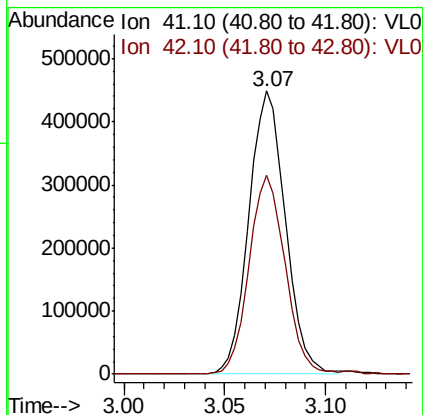
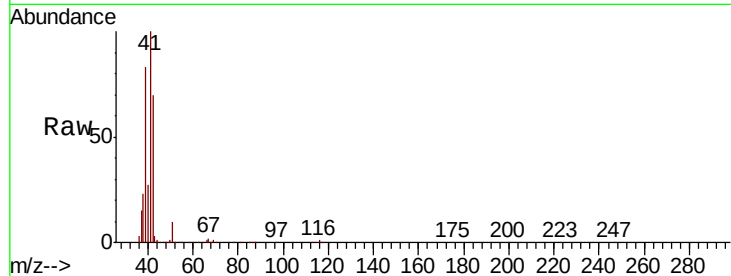
Ion Ratio Lower Upper

41 100

42 69.9 55.9 83.9

Manual Integrations
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#10

Heptane

Concen: 10.75 ppbv

RT: 8.31 min Scan# 2246

Delta R.T. 0.00 min

Lab File: VL032378.D

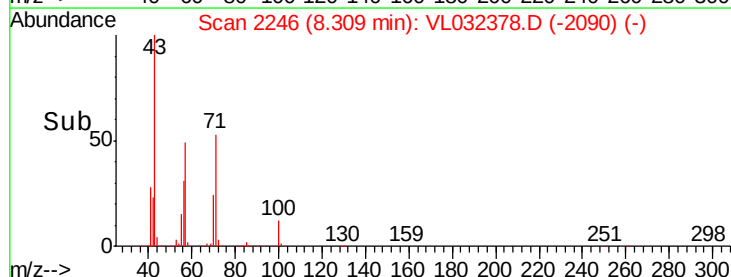
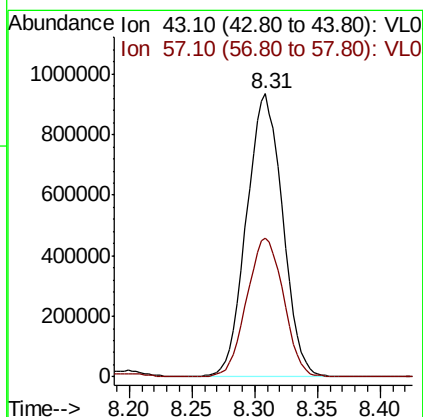
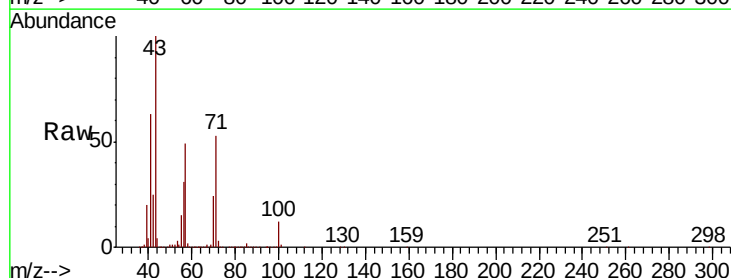
Acq: 16 Aug 2018 14:23

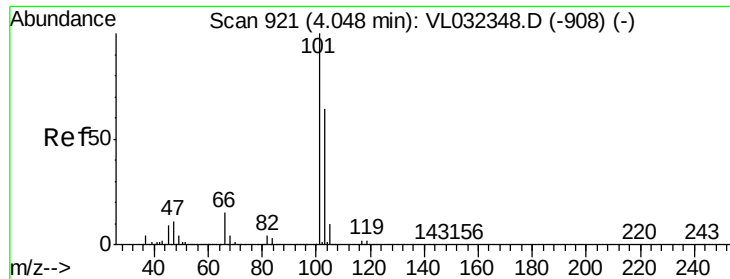
Tgt Ion: 43 Resp: 1868617

Ion Ratio Lower Upper

43 100

57 50.5 39.5 59.3





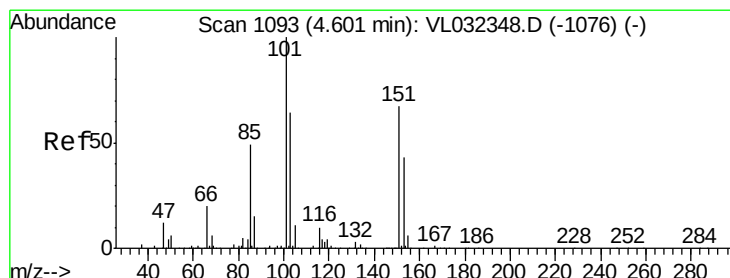
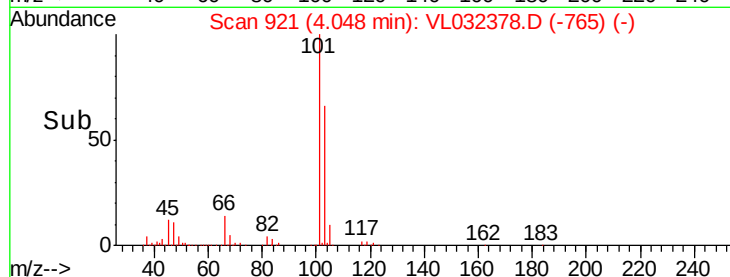
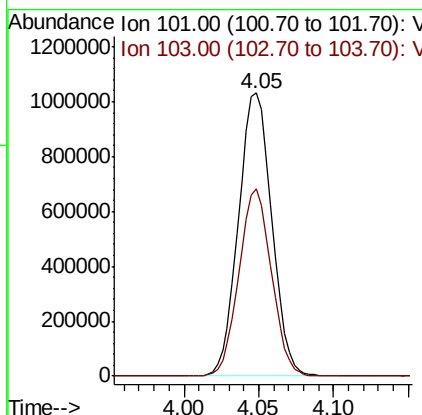
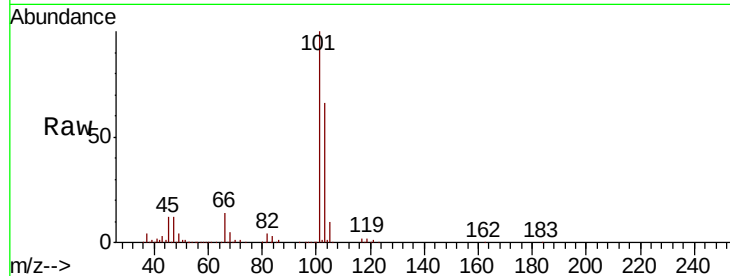
#11
 Trichlorofluoromethane
 Concen: 9.85 ppbv
 RT: 4.05 min Scan# 921
 Delta R.T. 0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1605058
 Ion Ratio Lower Upper
 101 100
 103 66.1 51.4 77.0

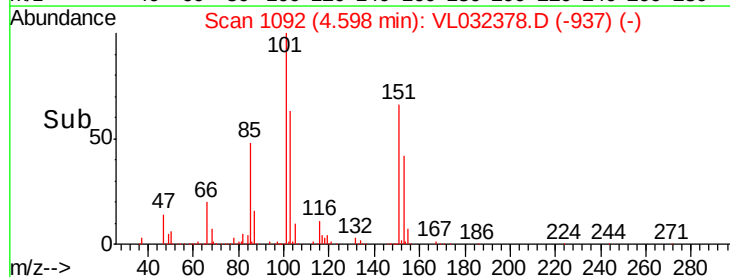
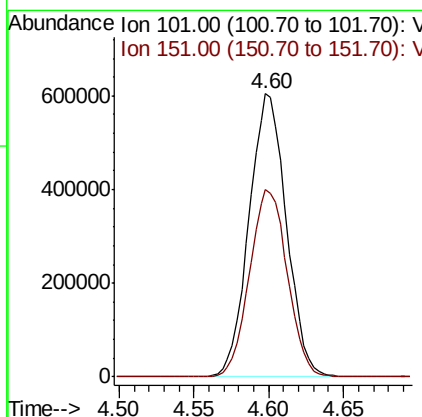
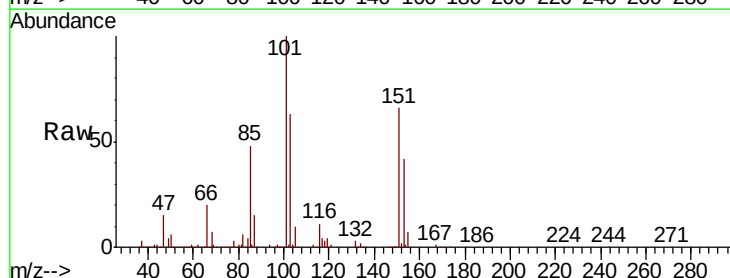
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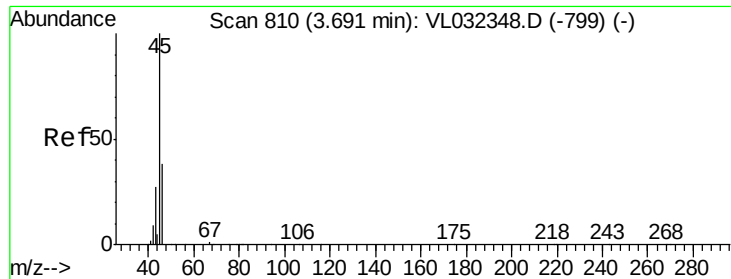
MMDadoda
 8/28/2018 2:52:58 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.56 ppbv
 RT: 4.60 min Scan# 1092
 Delta R.T. -0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Tgt Ion:101 Resp: 1048171
 Ion Ratio Lower Upper
 101 100
 151 67.2 53.1 79.7





#13

Ethanol

Concen: 11.71 ppbv

RT: 3.69 min Scan# 809

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 173601

Ion Ratio Lower Upper

45 100

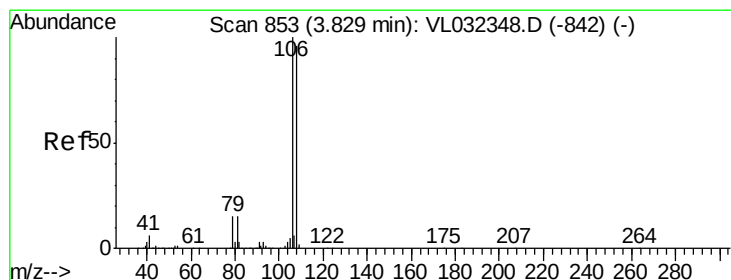
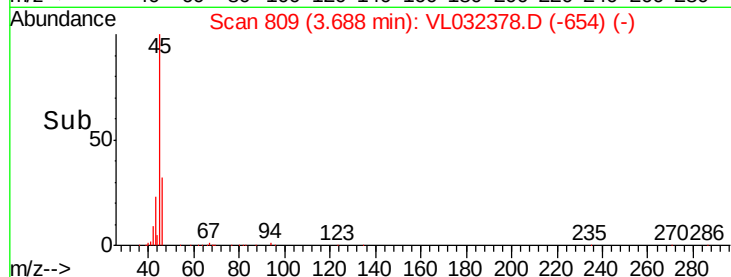
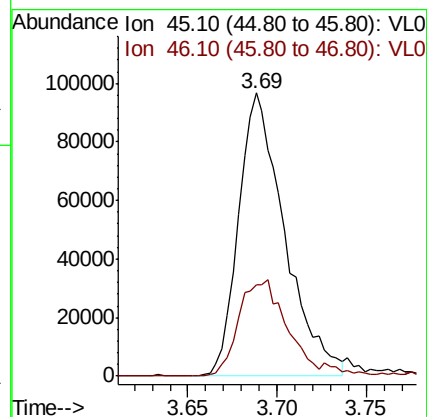
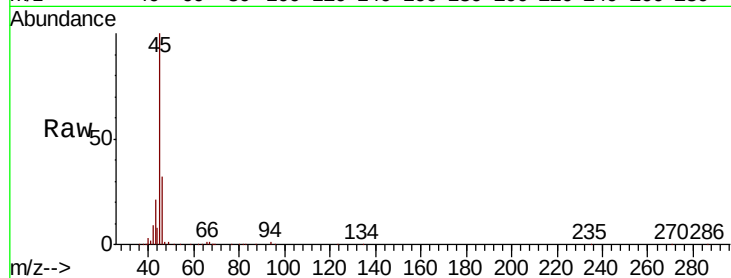
46 38.3 15.6 62.4

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#14

Bromoethene

Concen: 10.35 ppbv

RT: 3.83 min Scan# 853

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

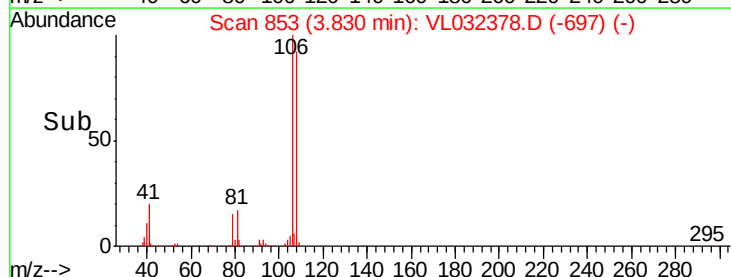
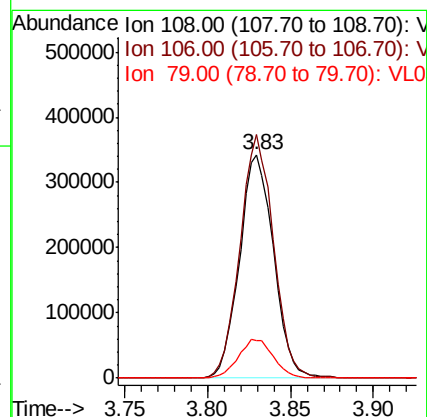
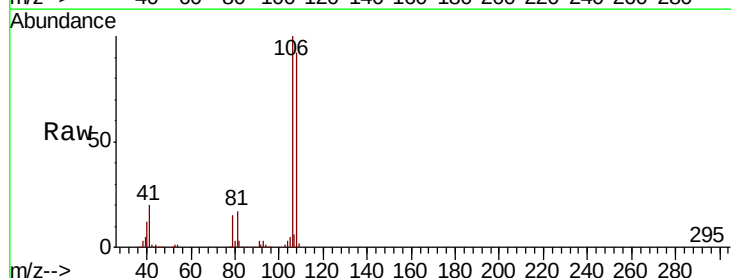
Tgt Ion: 108 Resp: 490783

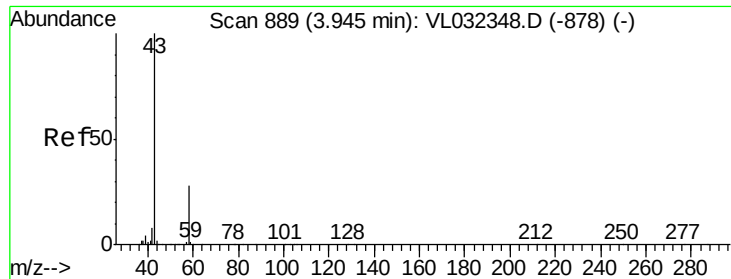
Ion Ratio Lower Upper

108 100

106 107.4 85.7 128.5

79 18.1 13.1 19.7





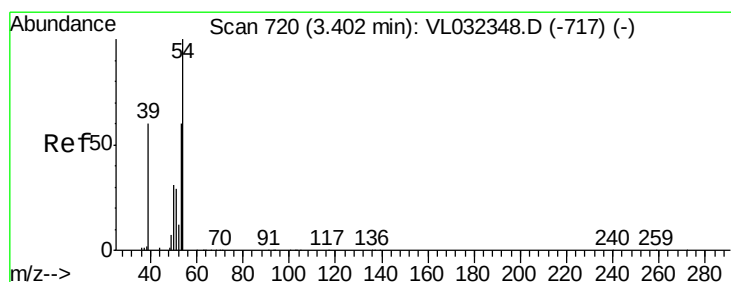
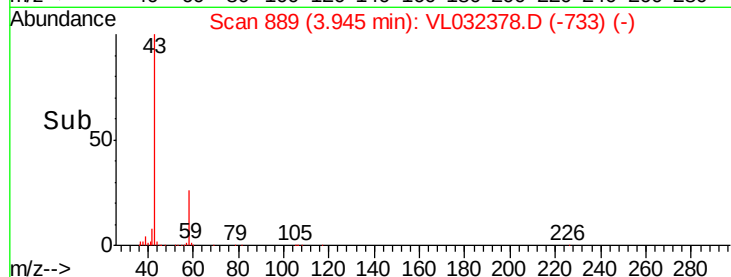
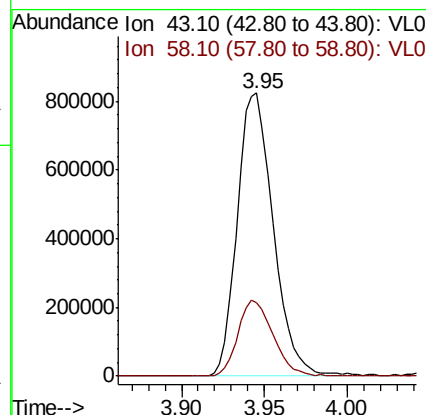
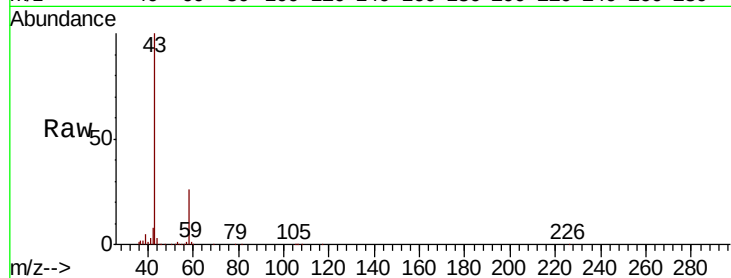
#15
Acetone
Concen: 9.00 ppbv
RT: 3.95 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1244794
Ion Ratio Lower Upper
43 100
58 26.4 22.4 33.6

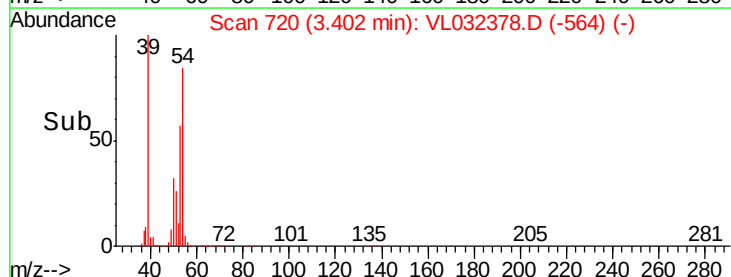
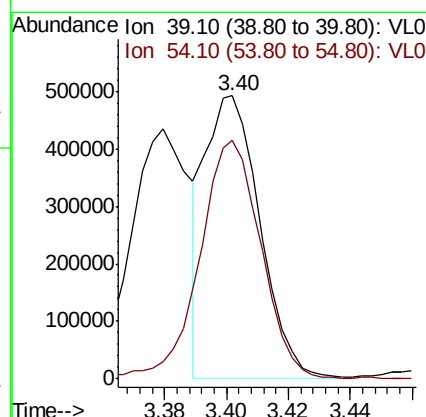
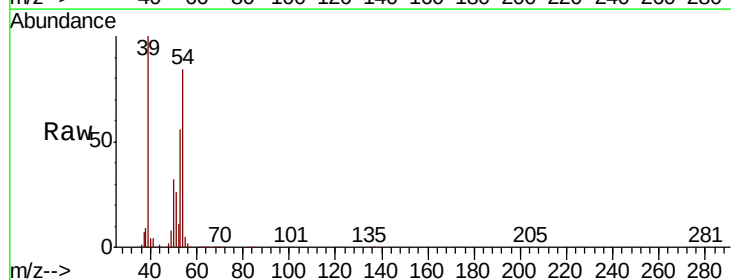
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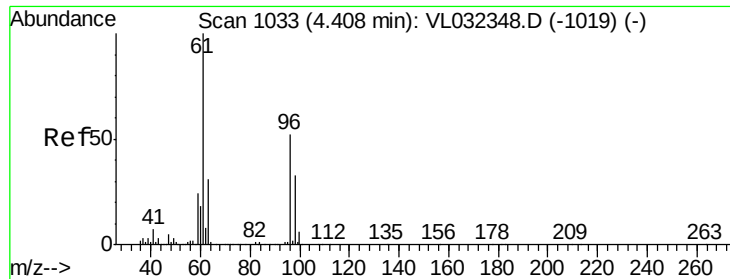
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#16
1,3-Butadiene
Concen: 10.65 ppbv
RT: 3.40 min Scan# 720
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Tgt Ion: 39 Resp: 608242
Ion Ratio Lower Upper
39 100
54 94.5 85.5 128.3





#17

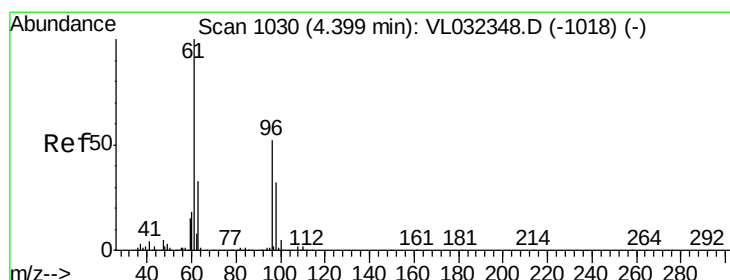
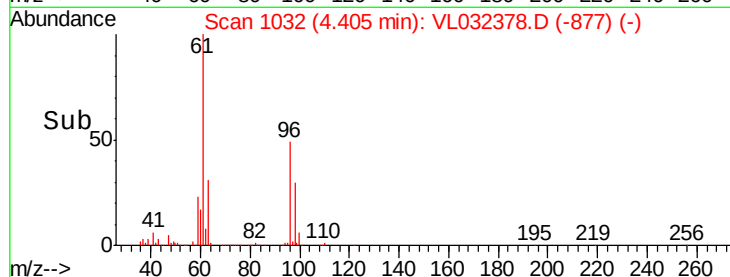
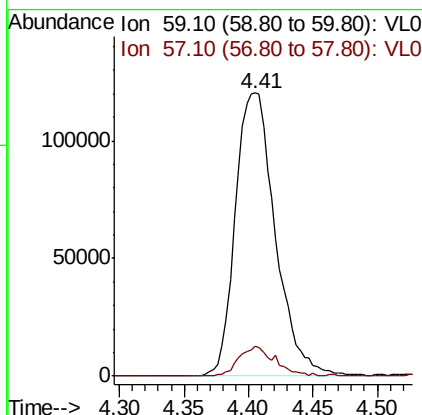
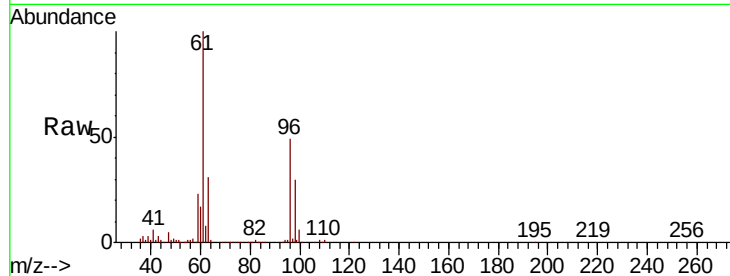
tert-Butyl alcohol
 Concen: 11.16 ppbv
 RT: 4.41 min Scan# 1032
 Delta R.T. -0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	7.6	11.4

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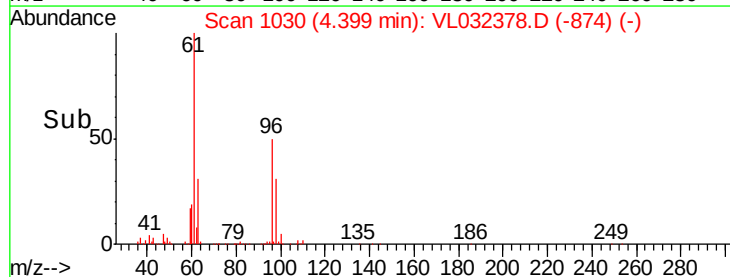
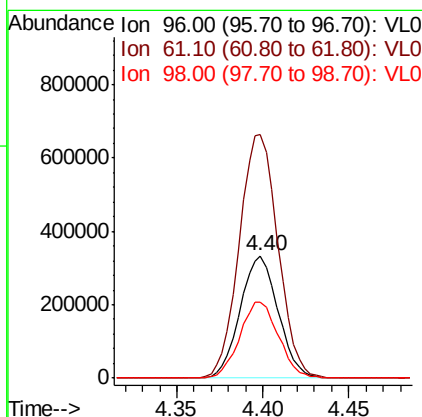
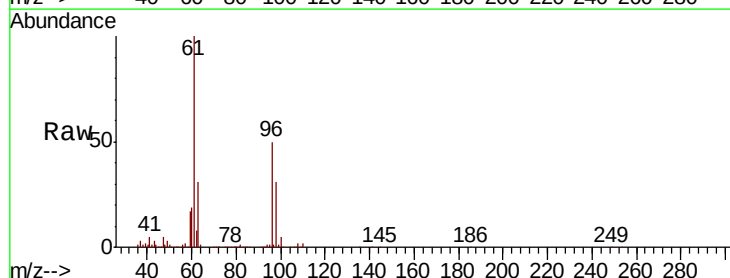
MMDadoda
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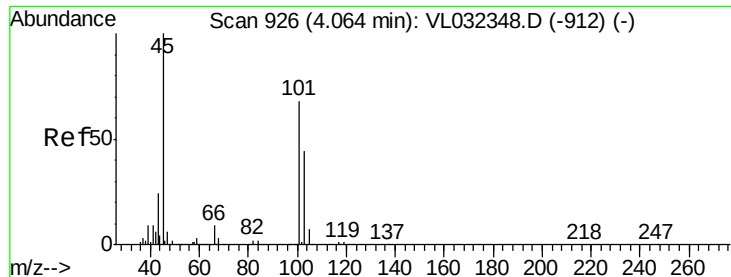


#18

1,1-Dichloroethene
 Concen: 9.98 ppbv
 RT: 4.40 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	199.6	154.6	231.8
98	61.9	50.1	75.1





#19

Isopropyl Alcohol

Concen: 10.89 ppbv

RT: 4.06 min Scan# 926

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Tot Ion: 45 Resp: 1015007

Ion Ratio Lower Upper

45 100

58 1.5 1.4 2.0

Instrument :

MSVOA_L

ClientSampleId :

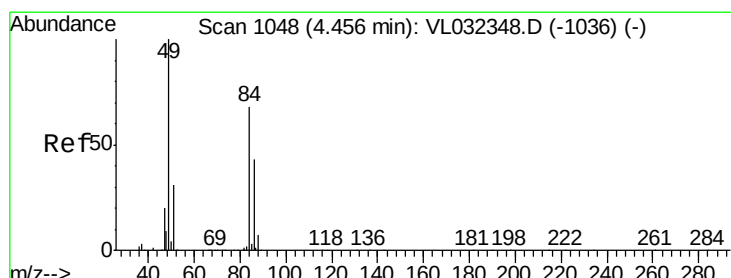
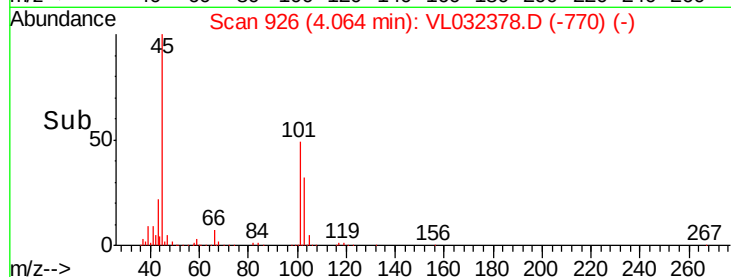
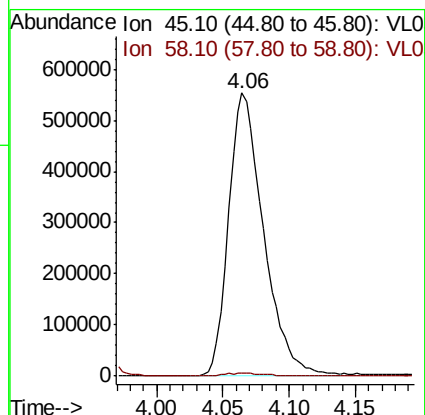
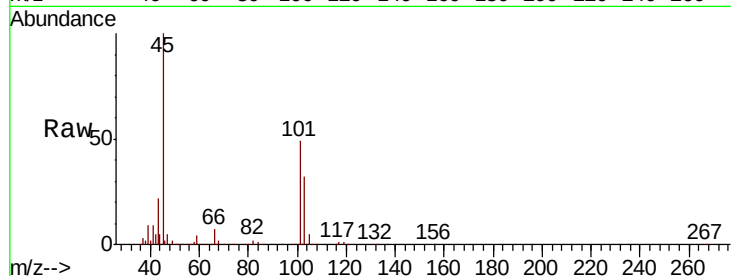
VSTDCCC010

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#20

Methylene Chloride

Concen: 8.71 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Tgt Ion: 84 Resp: 455411

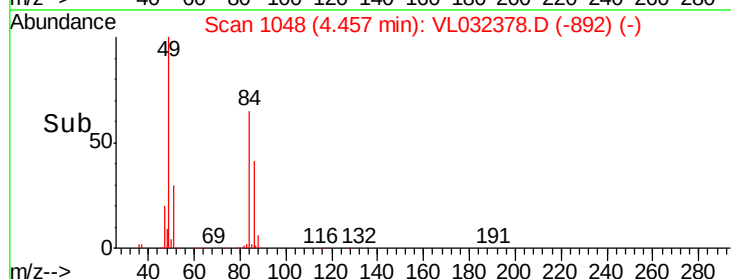
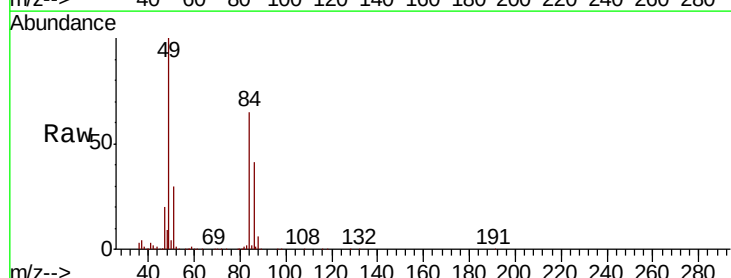
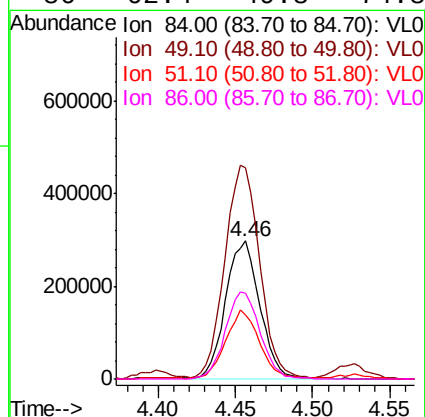
Ion Ratio Lower Upper

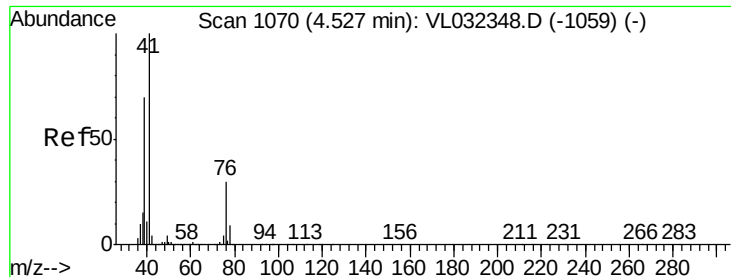
84 100

49 152.1 117.3 175.9

51 45.4 36.6 55.0

86 62.4 49.8 74.8





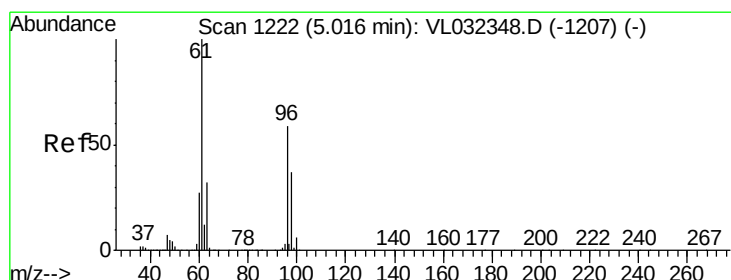
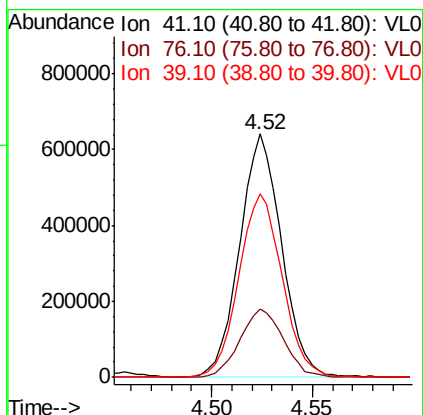
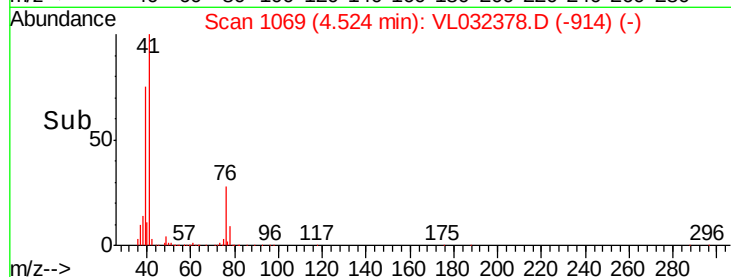
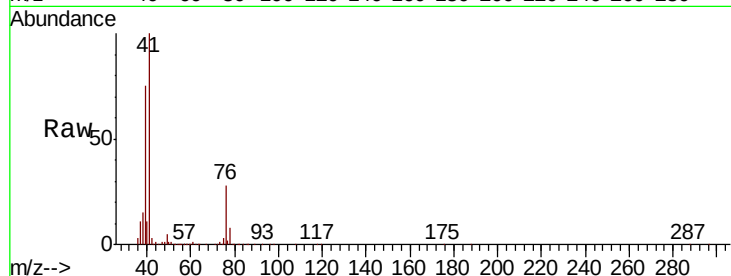
#21
Allvl Chloride
Concen: 10.59 ppbv
RT: 4.52 min Scan# 1069
Delta R.T. -0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.5	22.9	34.3
39	79.0	57.6	86.4

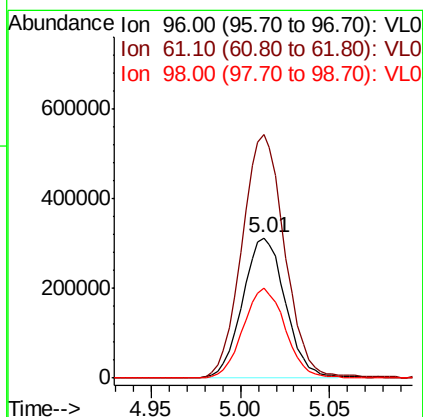
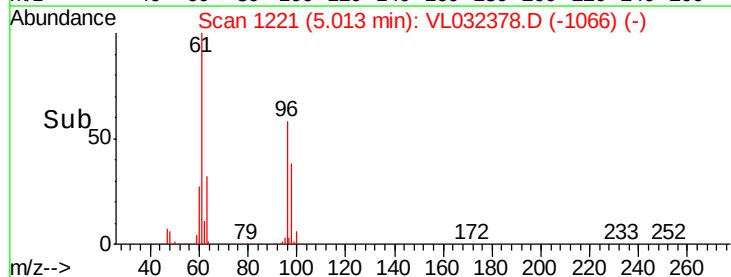
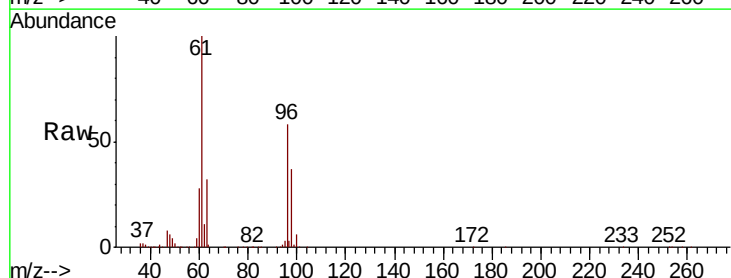
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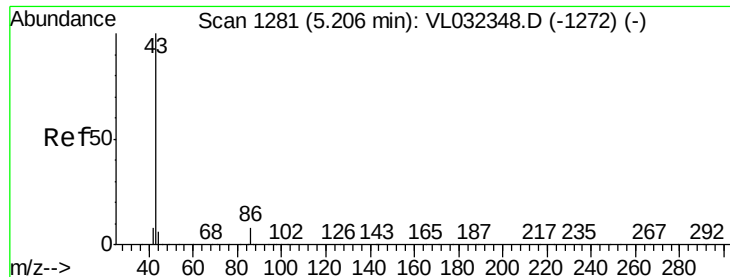
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#22
trans-1,2-Dichloroethene
Concen: 10.14 ppbv
RT: 5.01 min Scan# 1221
Delta R.T. -0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	173.5	136.6	205.0
98	64.6	50.6	76.0





#23

Vinyl Acetate

Concen: 10.30 ppbv

RT: 5.21 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2461570

Ion Ratio Lower Upper

43 100

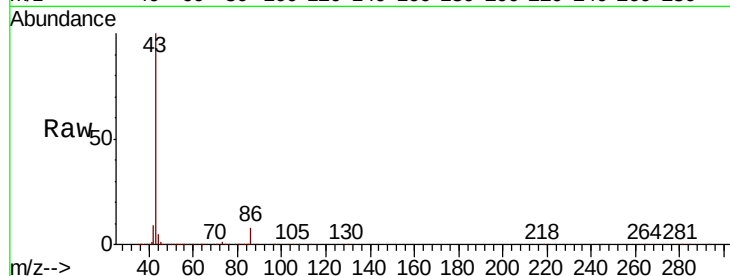
86 8.2 5.5 8.3

42 8.9 7.0 10.6

44 5.3 4.6 6.8

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MMDadoda
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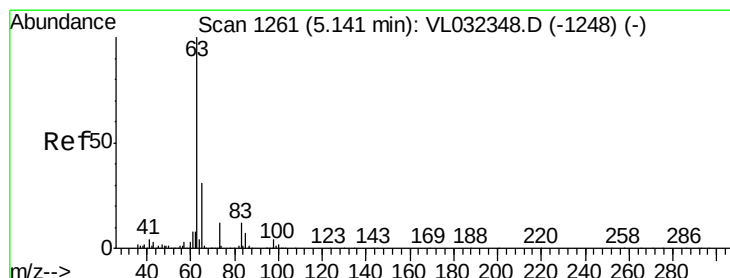
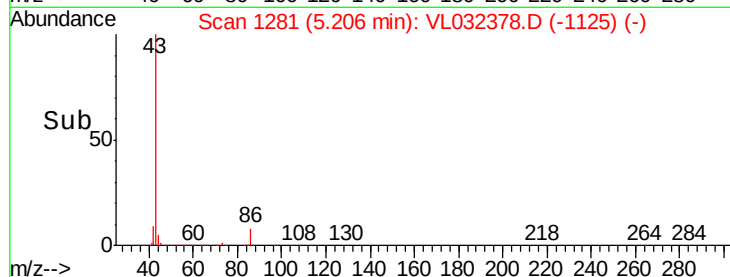
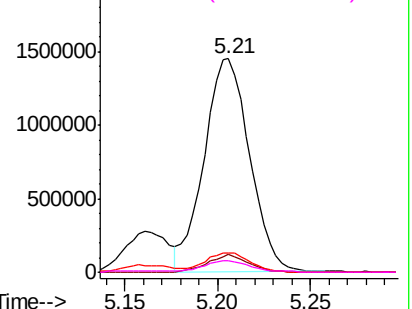


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.82 ppbv

RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

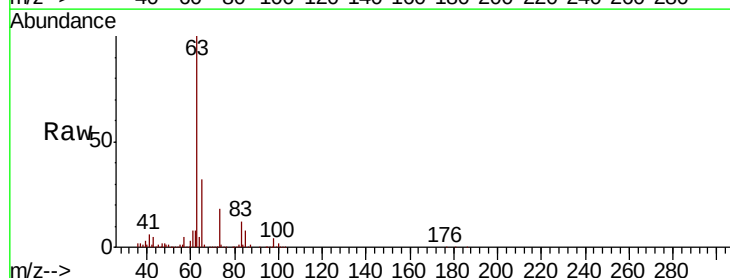
Tgt Ion: 63 Resp: 1694237

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.3

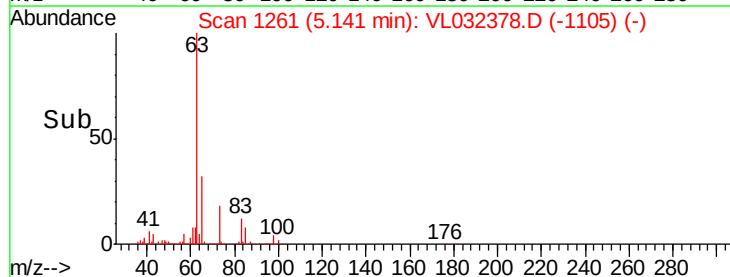
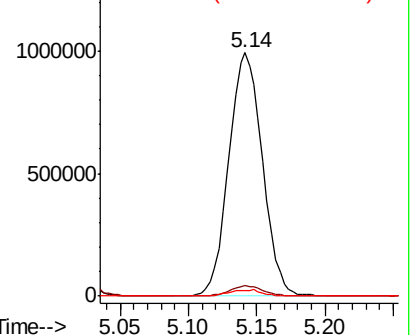
100 2.3 1.2 3.6

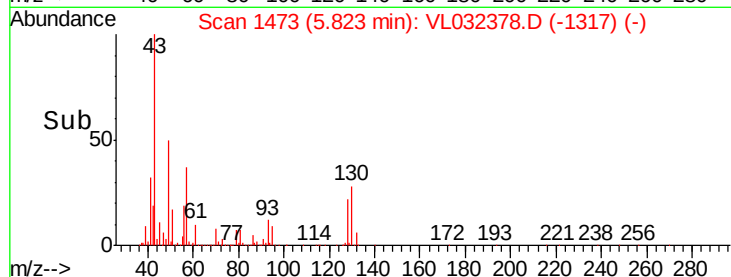
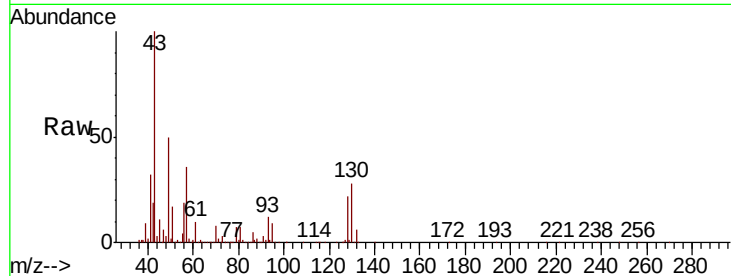
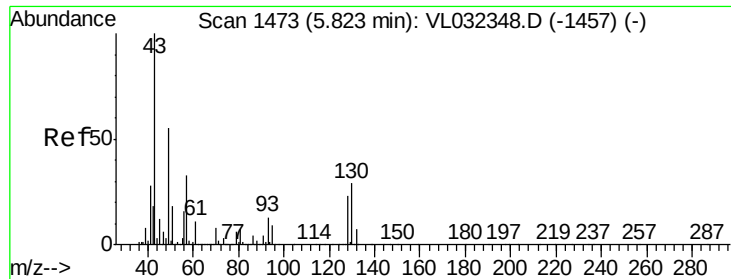


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





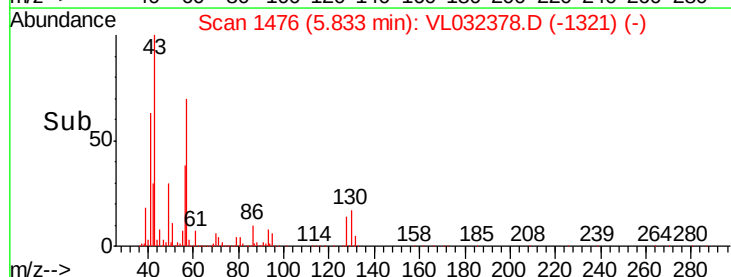
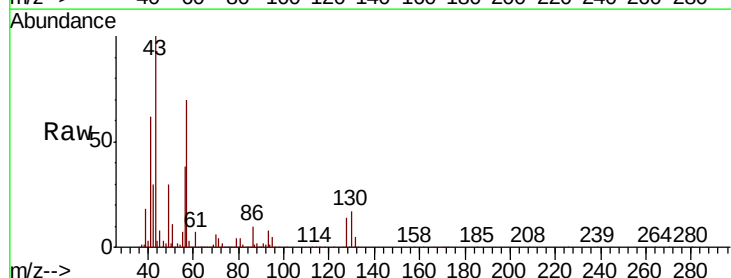
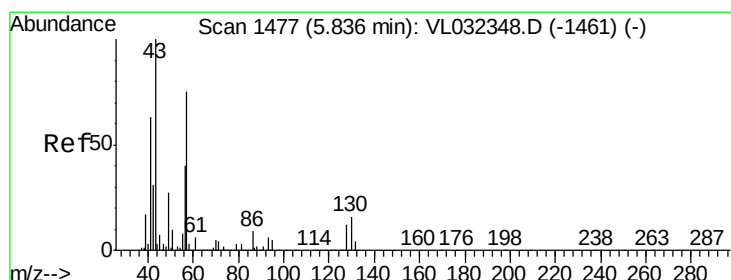
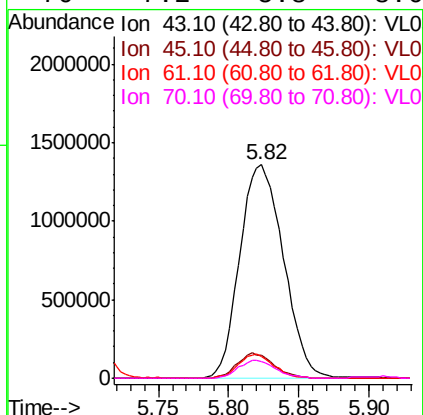
#25
Ethyl Acetate
Concen: 9.94 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.2	7.4	11.2
70	7.2	5.8	8.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

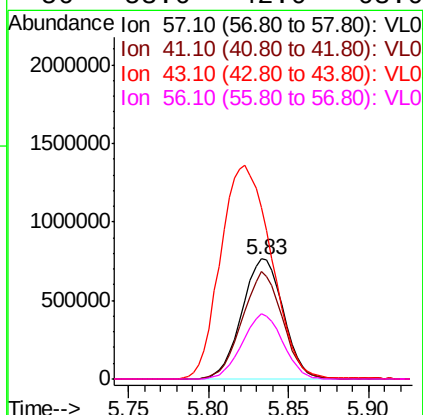
Manual Integrations
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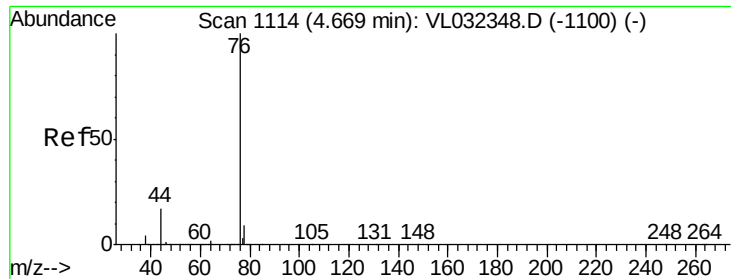
MMDadoda
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#26
Hexane
Concen: 10.19 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.4	68.0	102.0
43	220.1	175.3	262.9
56	53.6	42.0	63.0





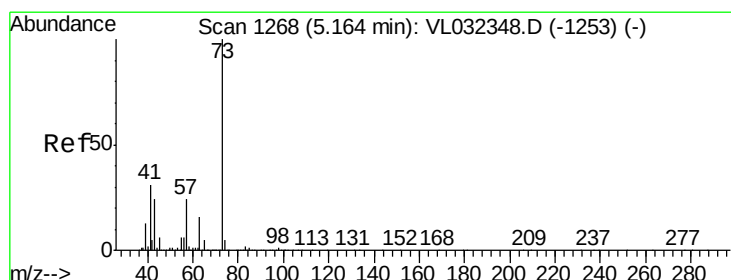
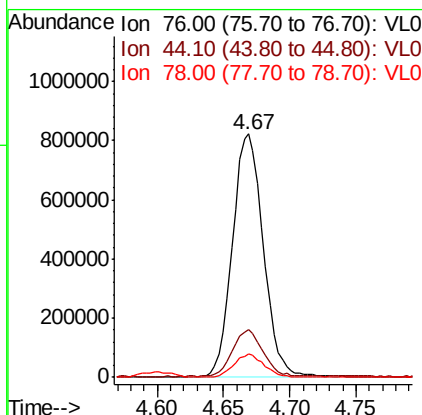
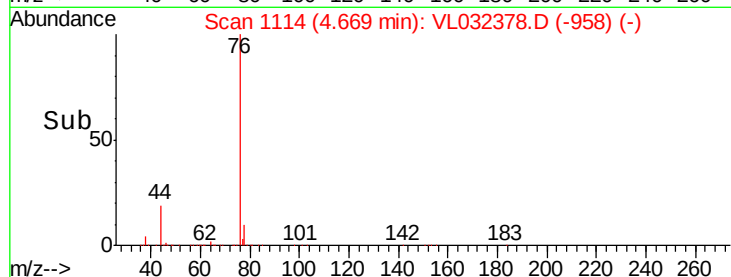
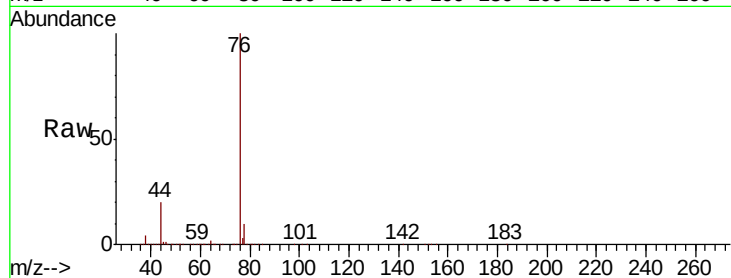
#27
Carbon Disulfide
Concen: 10.79 ppbv
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.0	14.4	21.6
78	9.4	7.4	11.0

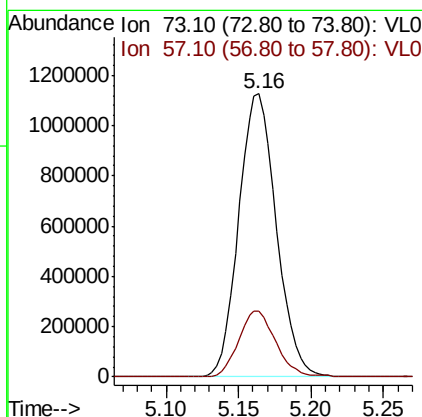
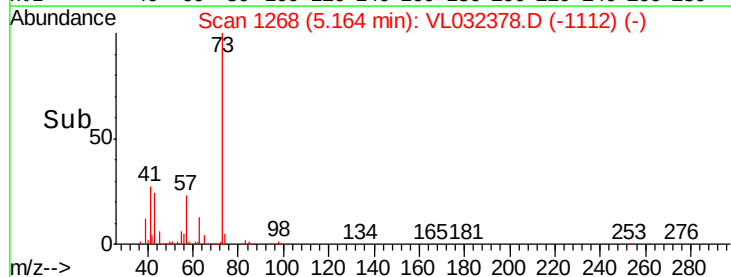
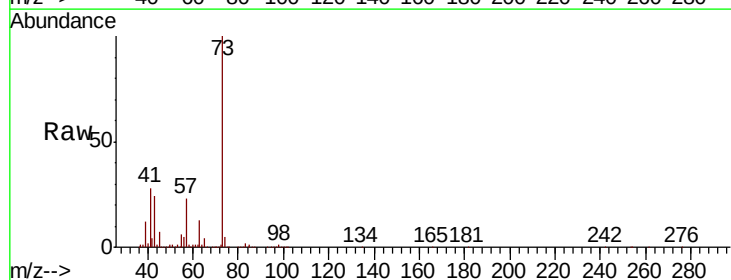
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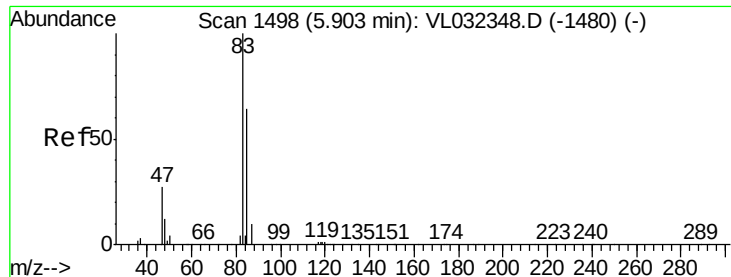
MMDadoda
8/28/2018 2:52:58 PM



#28
Methyl tert-Butyl Ether
Concen: 11.58 ppbv
RT: 5.16 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.2	19.3	28.9





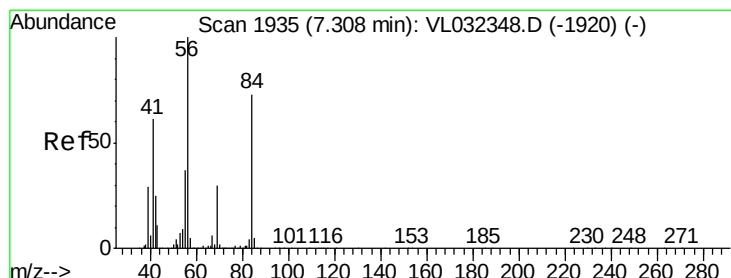
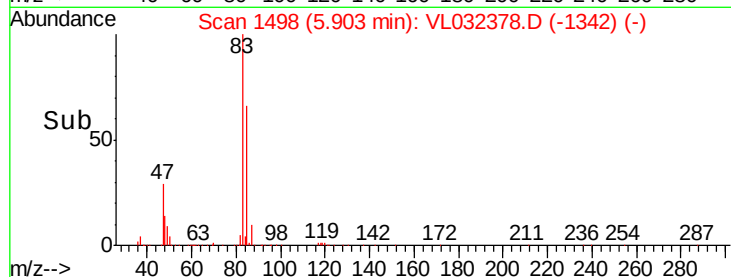
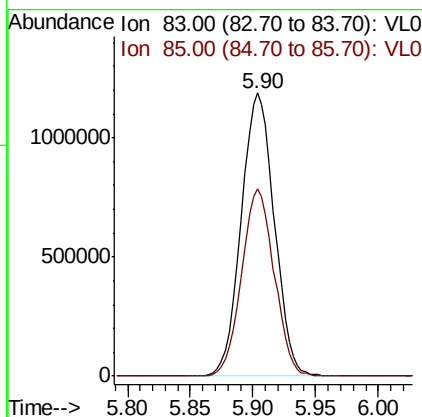
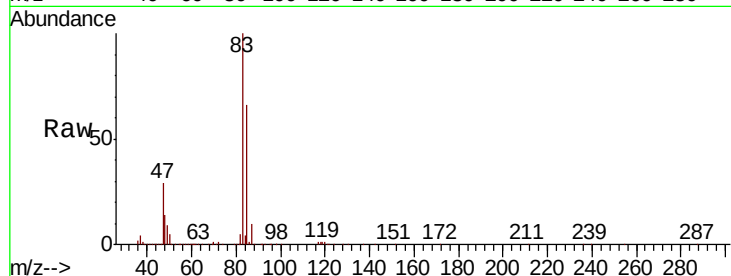
#29
Chloroform
Concen: 11.27 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2183358
Ion Ratio Lower Upper
83 100
85 66.0 51.6 77.4

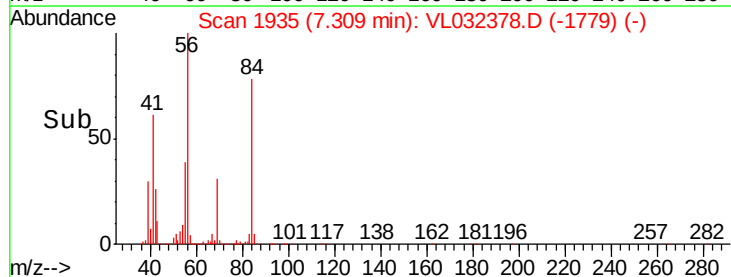
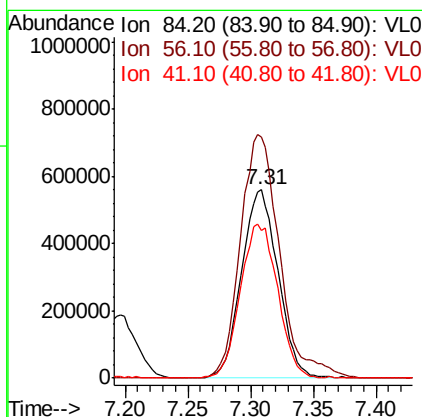
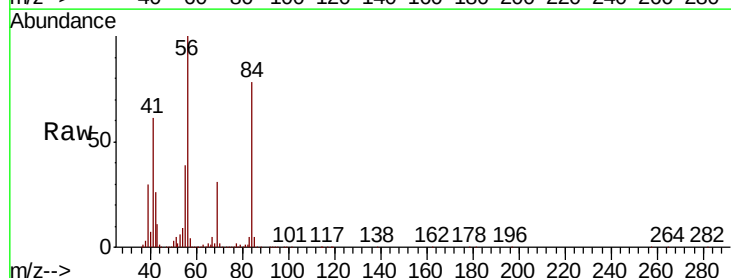
Manual Integrations
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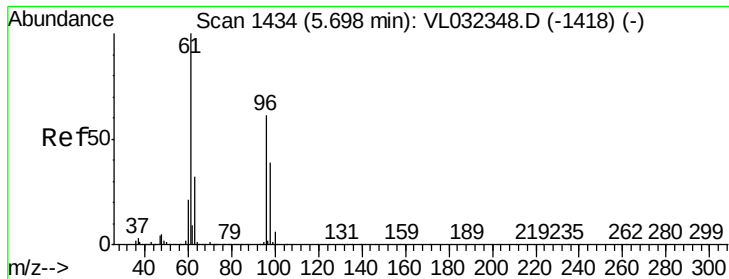
MMDadoda
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#30
Cyclohexane
Concen: 11.27 ppbv
RT: 7.31 min Scan# 1935
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Tgt Ion: 84 Resp: 1135259
Ion Ratio Lower Upper
84 100
56 139.3 115.7 173.5
41 84.0 67.9 101.9





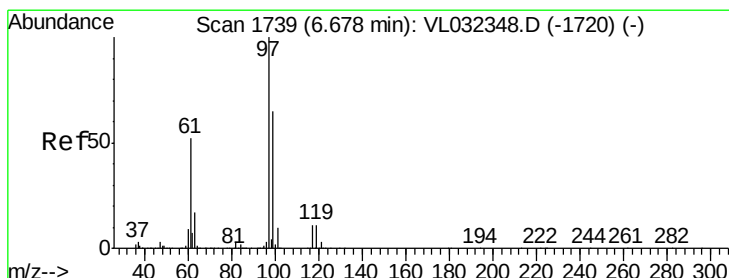
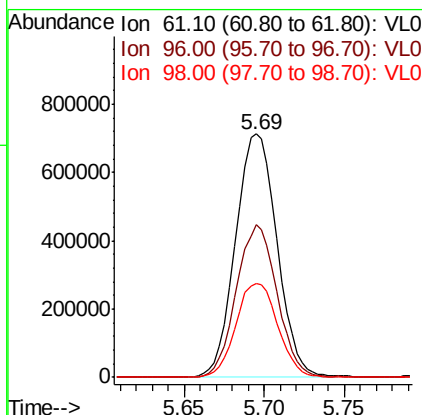
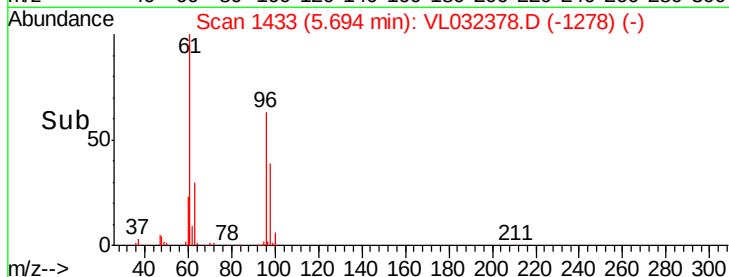
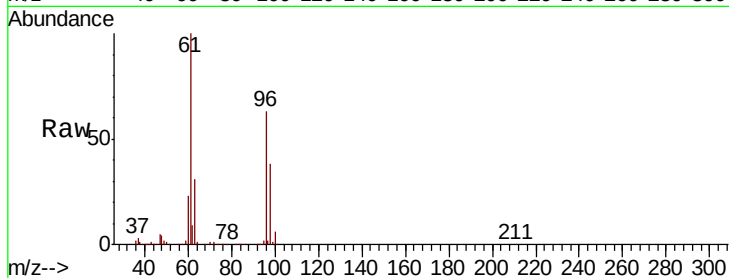
#31
 cis-1,2-Dichloroethene
 Concen: 9.74 ppbv
 RT: 5.69 min Scan# 1433
 Delta R.T. -0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	61	Resp	1259336
Ion	Ratio	Lower	Upper
61	100		
96	62.8	48.5	72.7
98	38.5	31.0	46.4

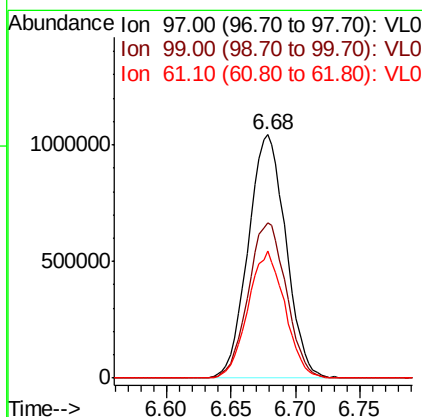
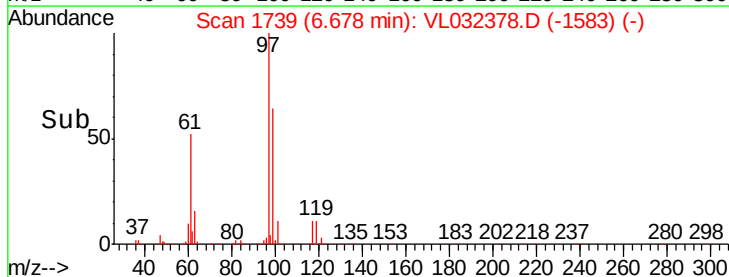
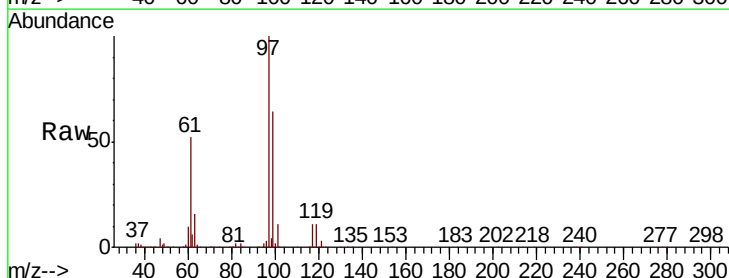
Manual Integrations
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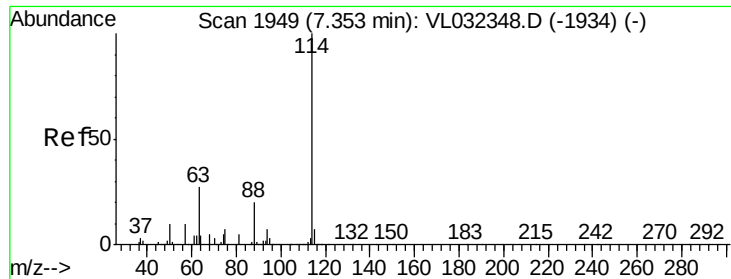
MMDadoda
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#32
 1,1,1-Trichloroethane
 Concen: 11.29 ppbv
 RT: 6.68 min Scan# 1739
 Delta R.T. 0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Tgt Ion	97	Resp	2127646
Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.1	76.7
61	50.9	41.1	61.7





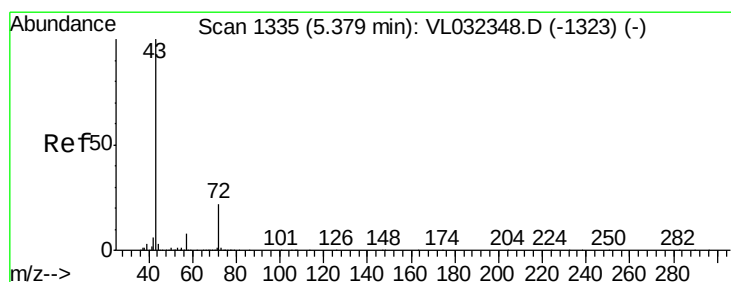
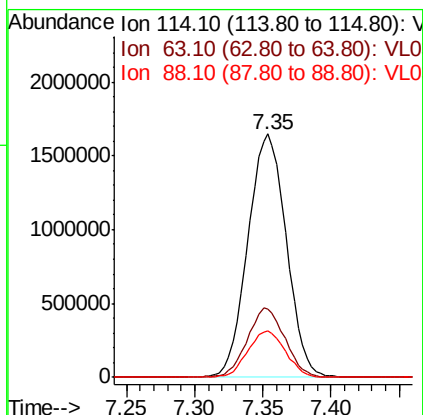
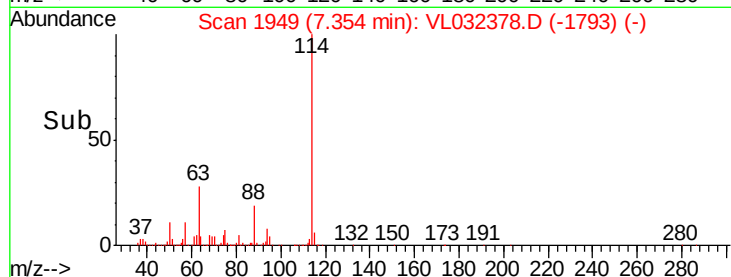
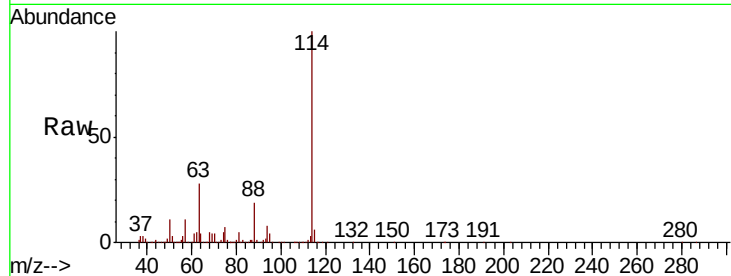
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.35 min Scan# 1949
 Delta R.T. 0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.0	33.0
88	18.9	15.3	22.9

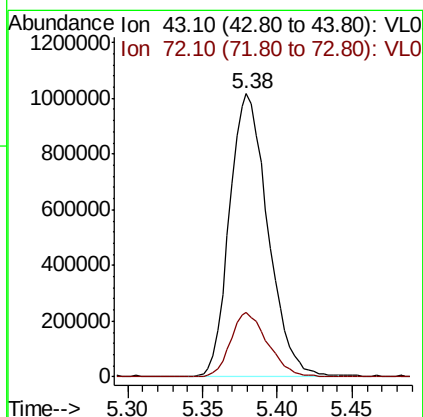
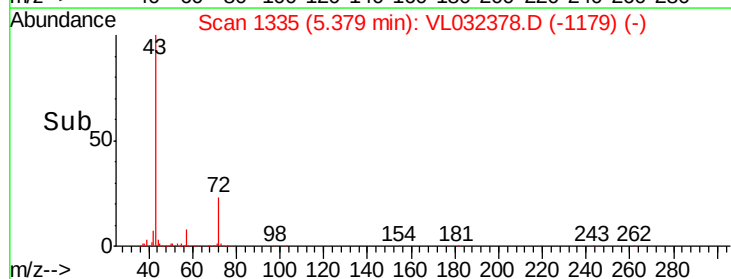
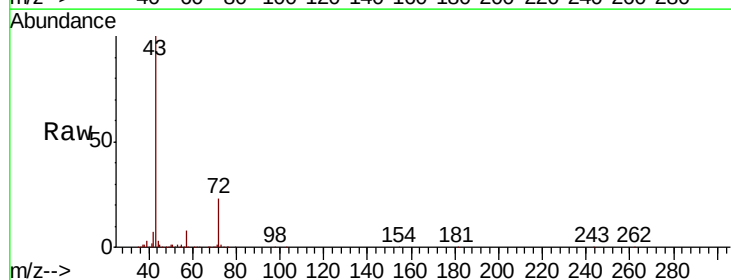
Manual Integrations
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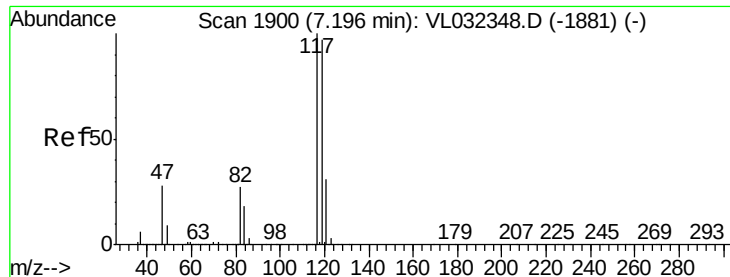
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#34
 2-Butanone
 Concen: 8.24 ppbv
 RT: 5.38 min Scan# 1335
 Delta R.T. 0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.9	26.9





#35

Carbon Tetrachloride

Concen: 11.12 ppbv

RT: 7.20 min Scan# 1900

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2113973

Ion Ratio Lower Upper

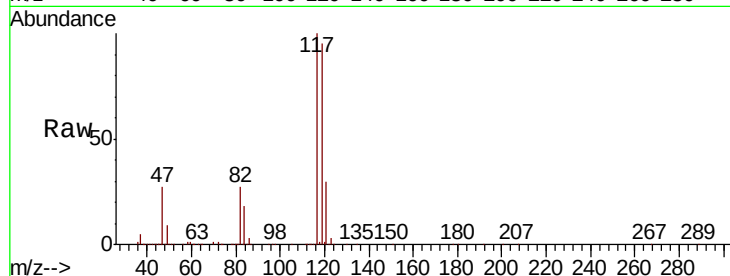
117 100

119 95.2 77.2 115.8

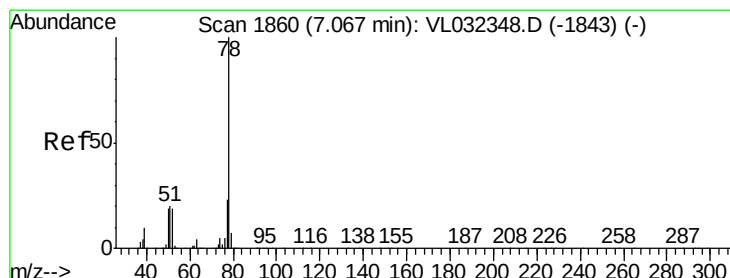
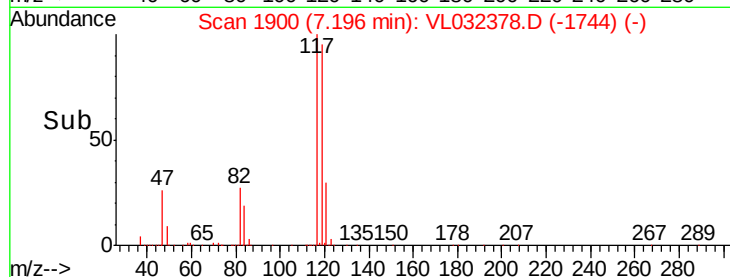
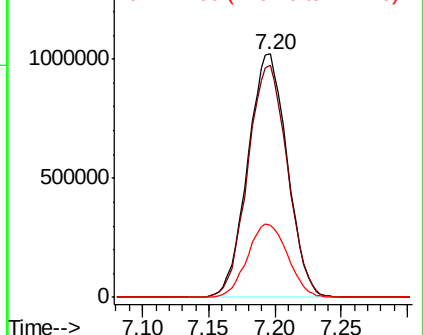
121 29.7 25.1 37.7

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.60 ppbv

RT: 7.06 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

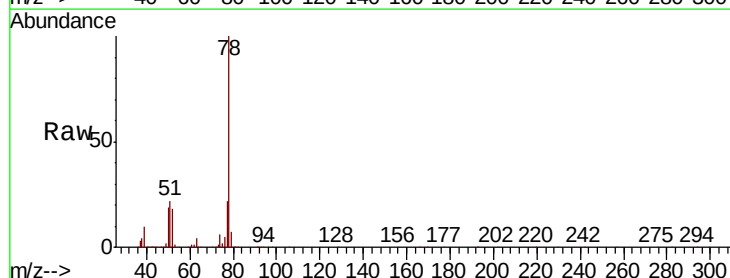
Tgt Ion: 78 Resp: 2895906

Ion Ratio Lower Upper

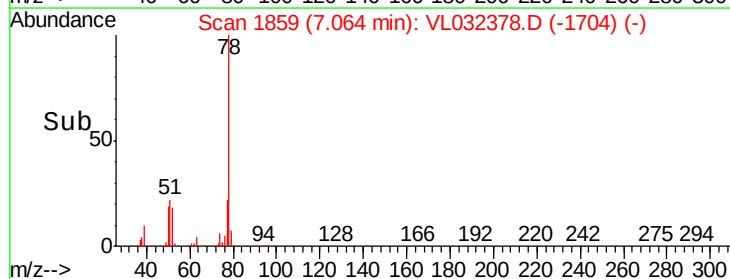
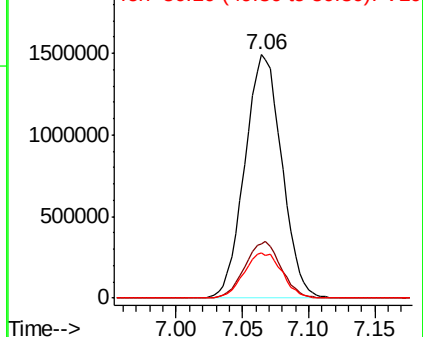
78 100

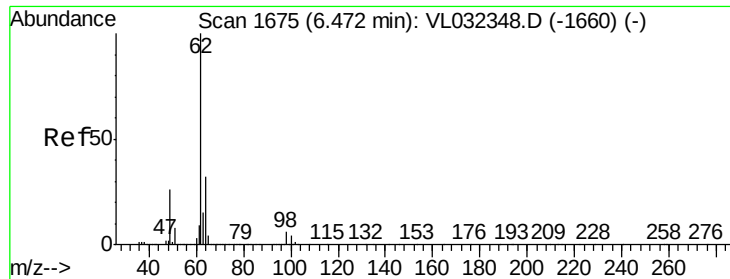
77 22.5 18.0 27.0

50 18.6 15.1 22.7



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.49 ppbv

RT: 6.47 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 1573004

Ion Ratio Lower Upper

62 100

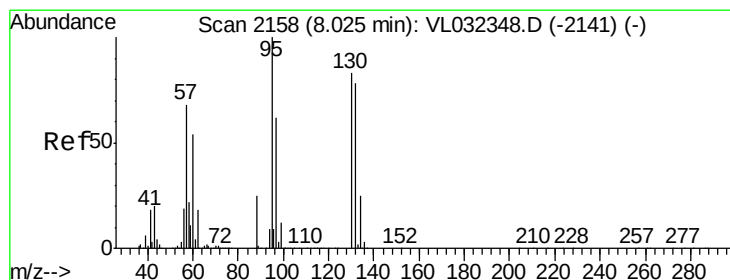
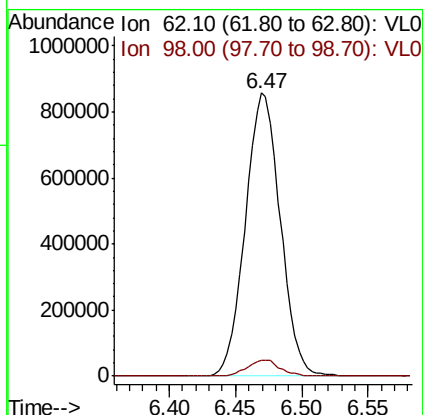
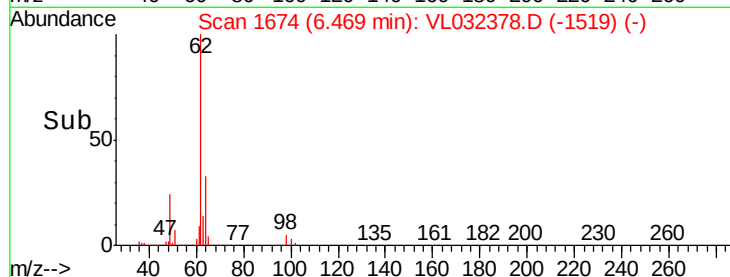
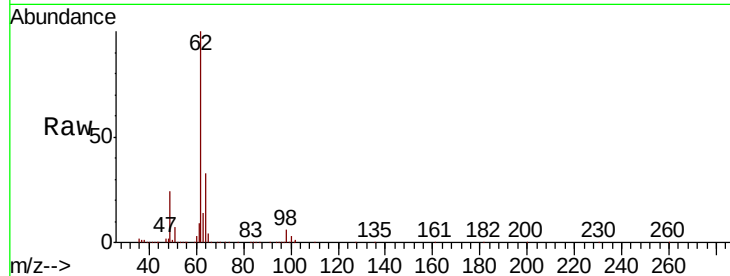
98 5.5 5.0 7.6

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#38

Trichloroethene

Concen: 10.30 ppbv

RT: 8.02 min Scan# 2157

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Tgt Ion: 130 Resp: 987646

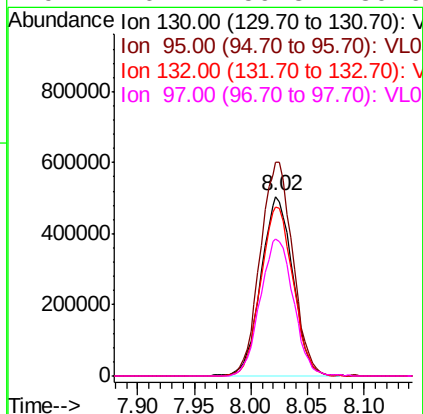
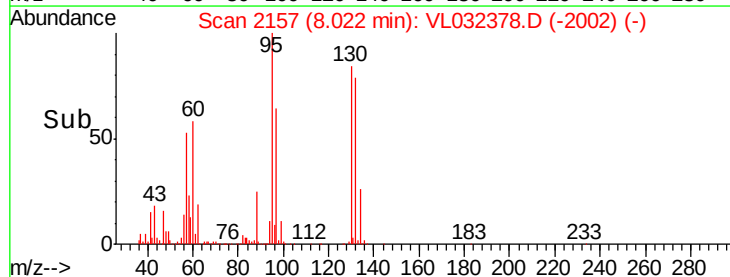
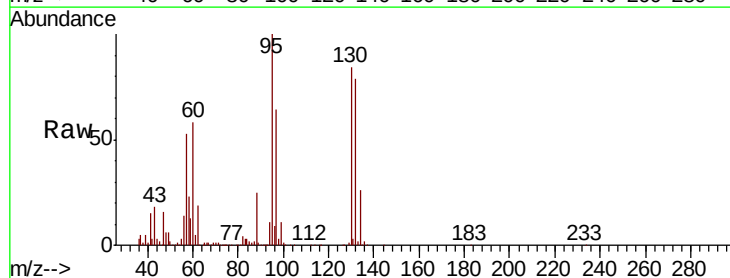
Ion Ratio Lower Upper

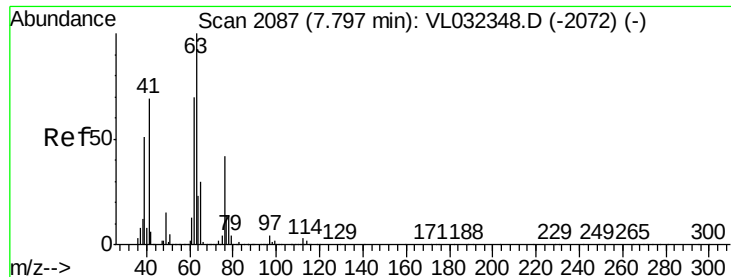
130 100

95 119.1 96.6 144.8

132 94.5 75.5 113.3

97 76.2 59.8 89.6





#39

1,2-Dichloropropane

Concen: 9.78 ppbv

RT: 7.80 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 63 Resp: 111696

Ion Ratio Lower Upper

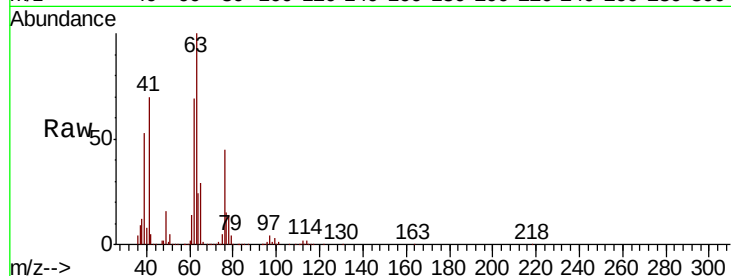
63 100

41 69.8 55.5 83.3

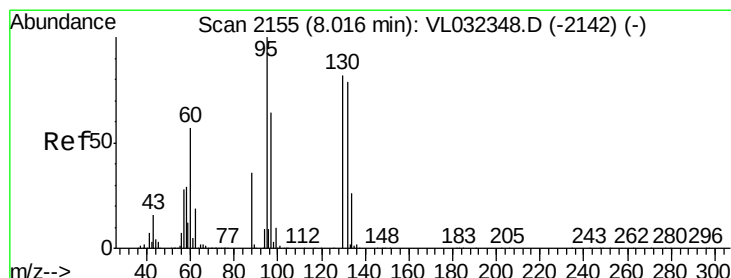
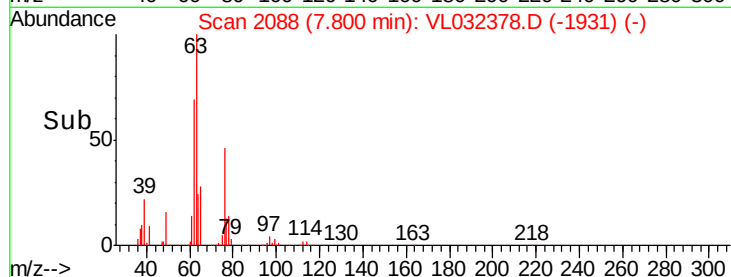
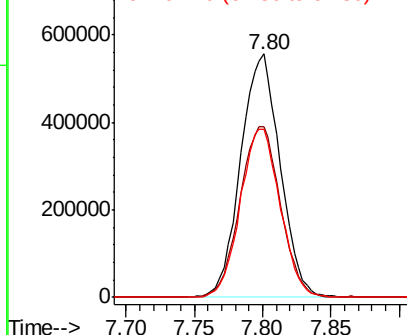
62 68.8 56.3 84.5

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Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 11.12 ppbv

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Tgt Ion: 88 Resp: 385502

Ion Ratio Lower Upper

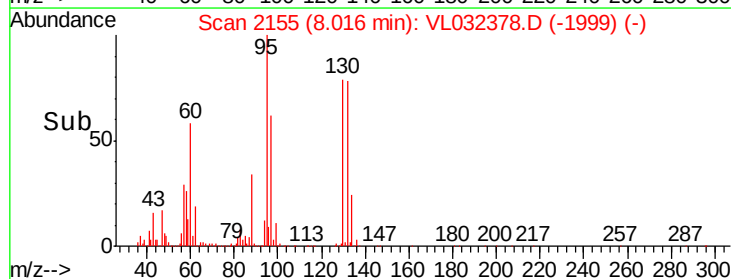
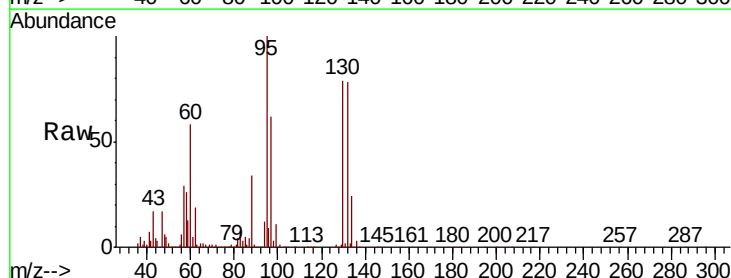
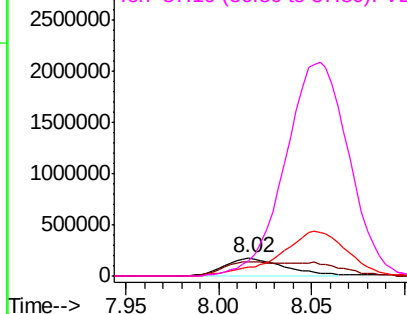
88 100

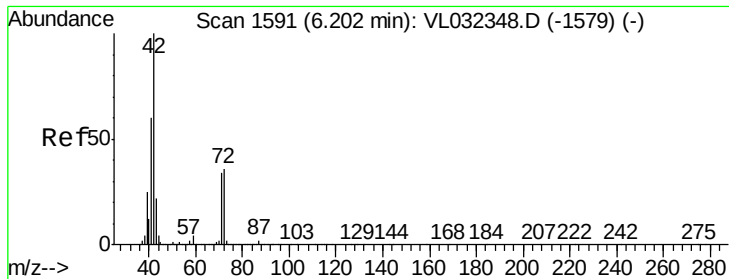
58 144.9 113.7 170.5

43 289.5 224.0 336.0

57 1301.7 1013.0 1519.6

Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





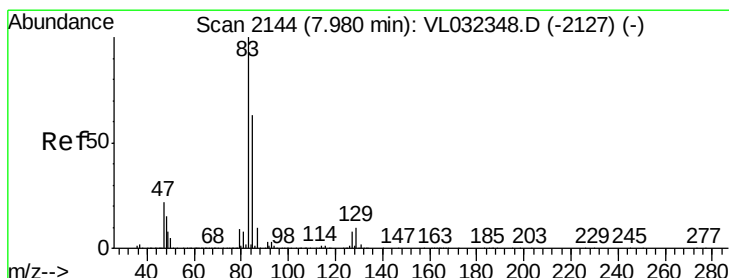
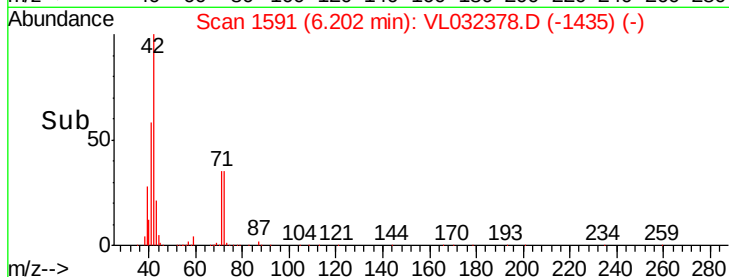
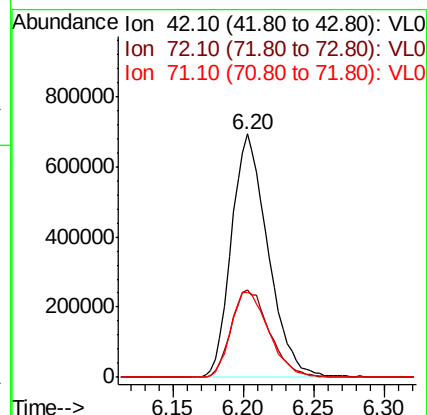
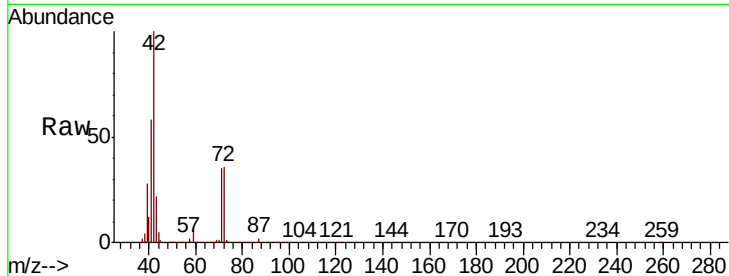
#41
Tetrahydrofuran
Concen: 10.68 ppbv
RT: 6.20 min Scan# 1591
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.9	29.8	44.6
71	36.5	28.2	42.2

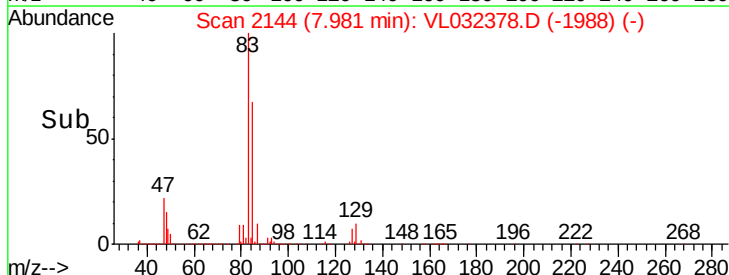
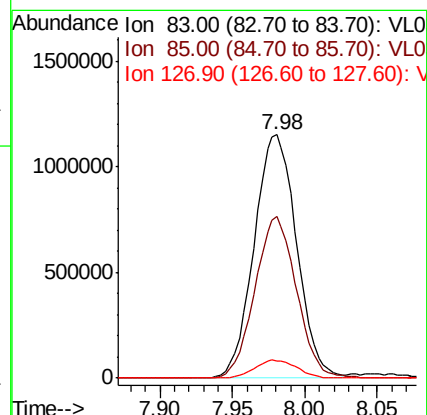
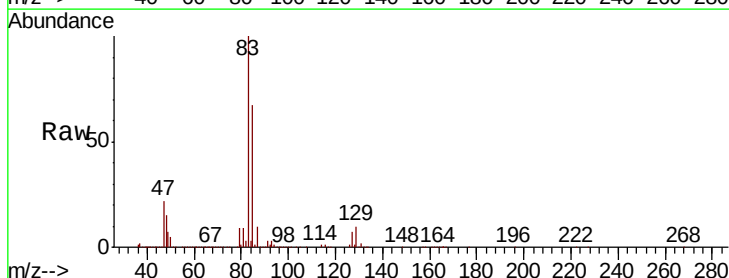
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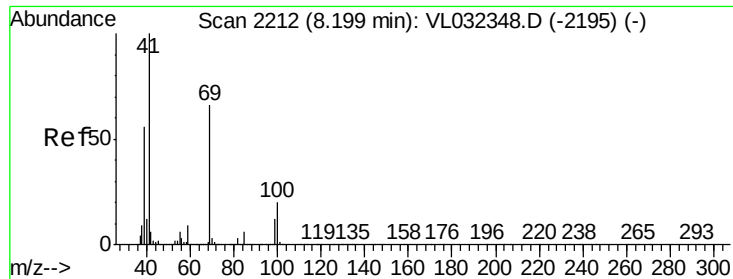
MMDadoda
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#42
Bromodichloromethane
Concen: 10.80 ppbv
RT: 7.98 min Scan# 2144
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.6	50.4	75.6
127	7.2	6.1	9.1





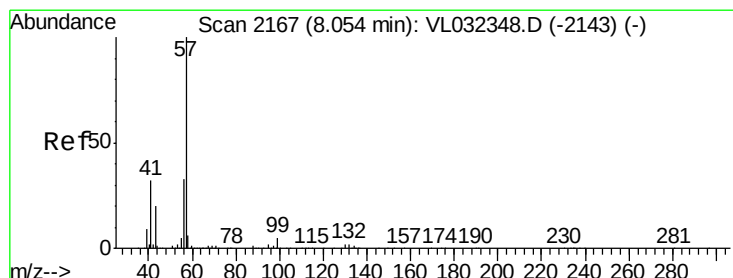
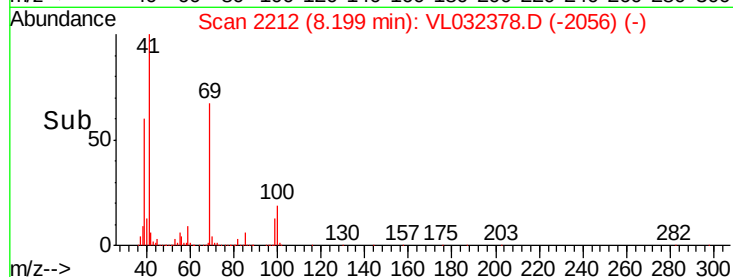
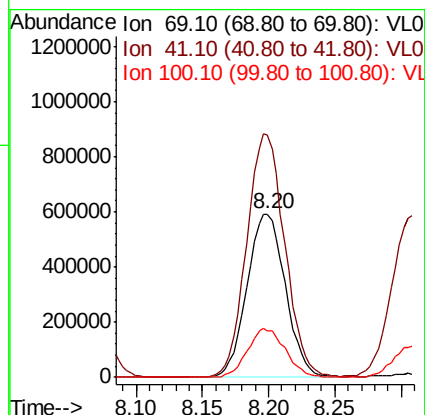
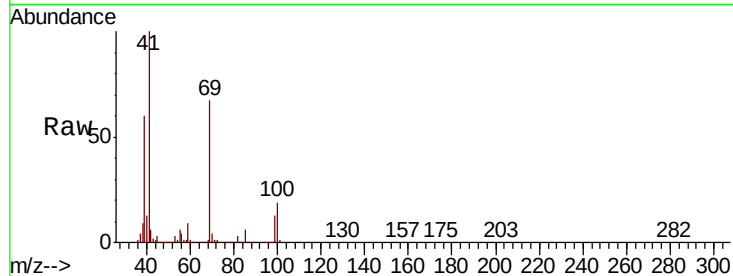
#43
Methyl Methacrylate
Concen: 10.94 ppbv
RT: 8.20 min Scan# 2212
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1191093
Ion Ratio Lower Upper
69 100
41 147.7 118.6 177.8
100 29.3 23.4 35.2

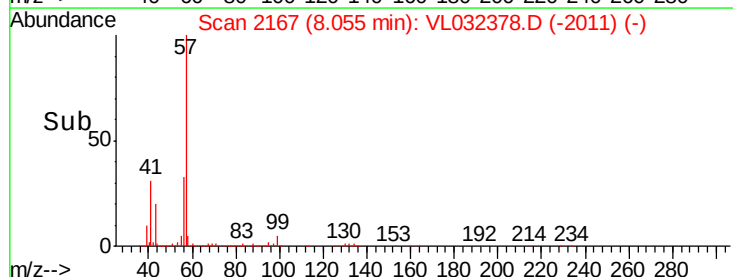
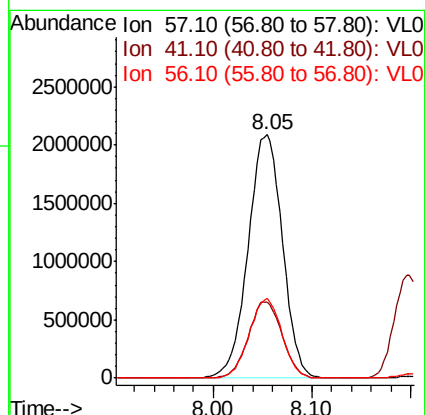
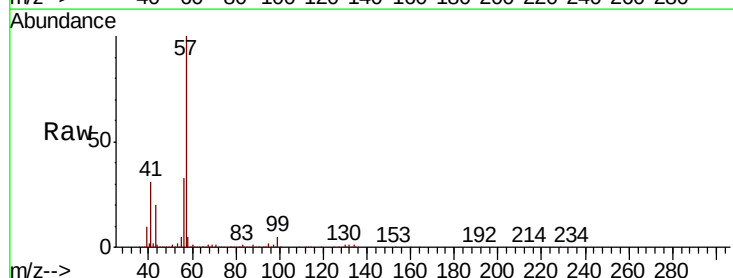
Manual Integrations
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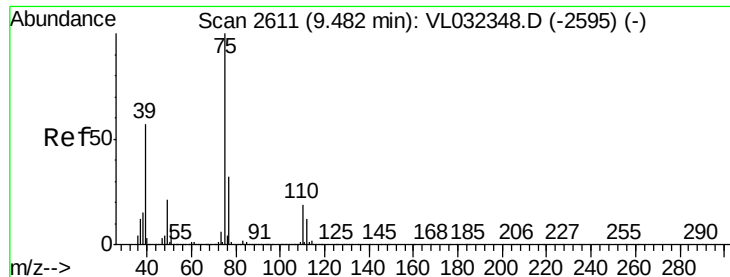
MMDadoda
8/28/2018 2:52:58 PM



#44
2,2,4-Trimethylpentane
Concen: 10.17 ppbv
RT: 8.05 min Scan# 2167
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Tgt Ion: 57 Resp: 5012289
Ion Ratio Lower Upper
57 100
41 30.9 24.3 36.5
56 31.3 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 12.43 ppbv

RT: 9.48 min Scan# 2610

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1711481

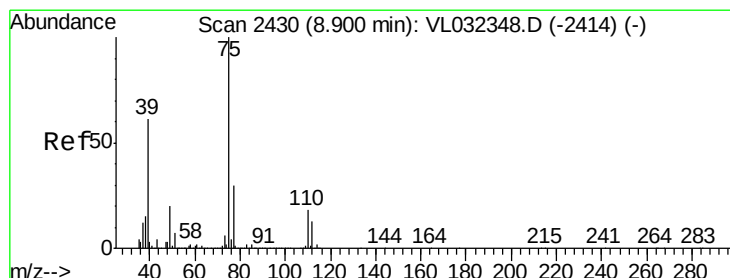
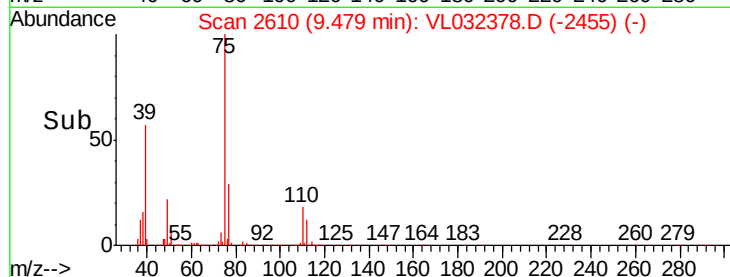
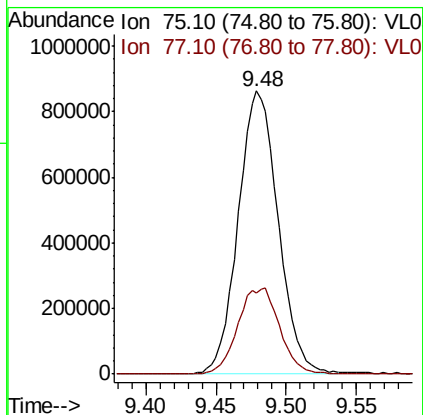
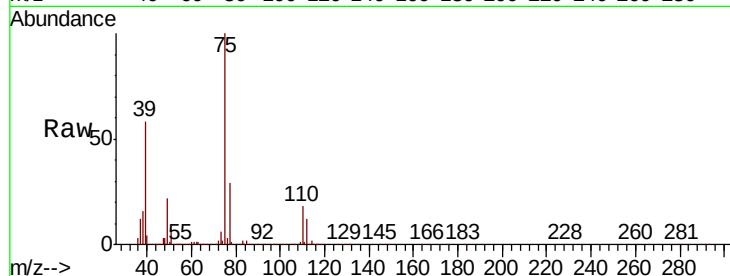
Ion Ratio Lower Upper

75 100

77 28.8 25.4 38.2

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#46

cis-1,3-Dichloropropene

Concen: 12.03 ppbv

RT: 8.90 min Scan# 2429

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

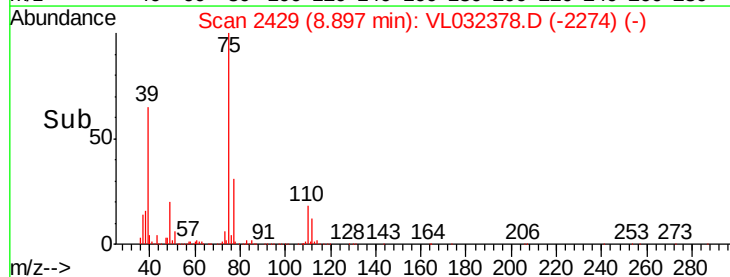
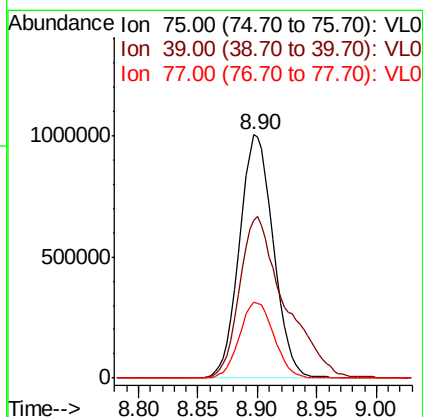
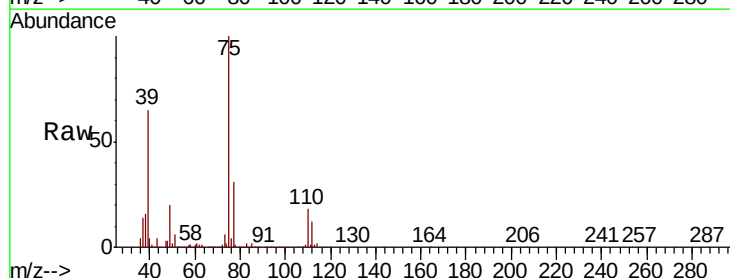
Tgt Ion: 75 Resp: 1987052

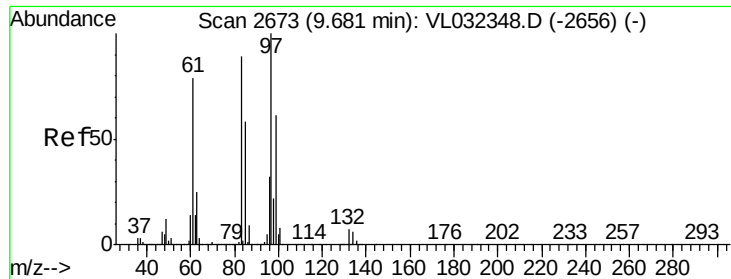
Ion Ratio Lower Upper

75 100

39 64.5 48.5 72.7

77 31.3 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 9.82 ppbv

RT: 9.68 min Scan# 2672

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 97 Resp: 1233679

Ion Ratio Lower Upper

97 100

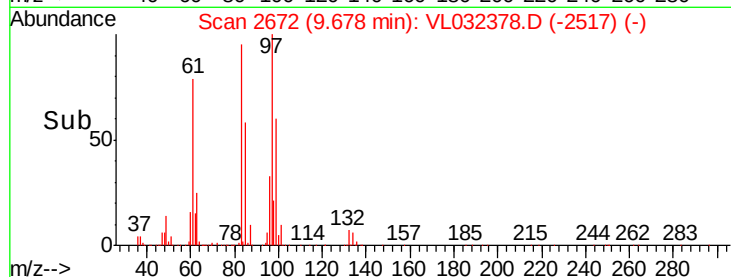
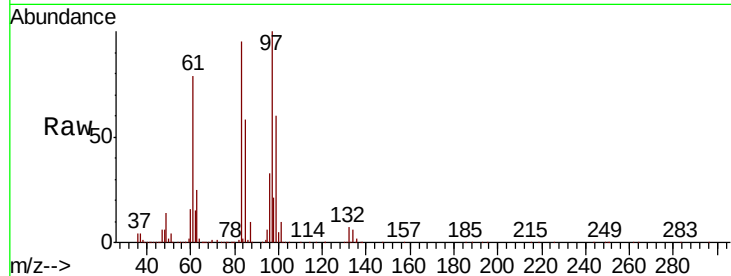
83 95.3 71.2 106.8

85 57.9 46.6 69.8

99 59.8 49.2 73.8

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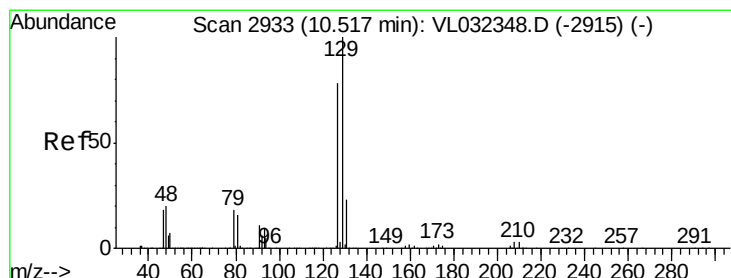
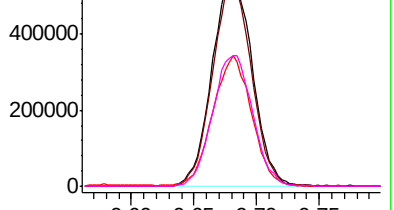


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 11.06 ppbv

RT: 10.52 min Scan# 2933

Delta R.T. 0.00 min

Lab File: VL032378.D

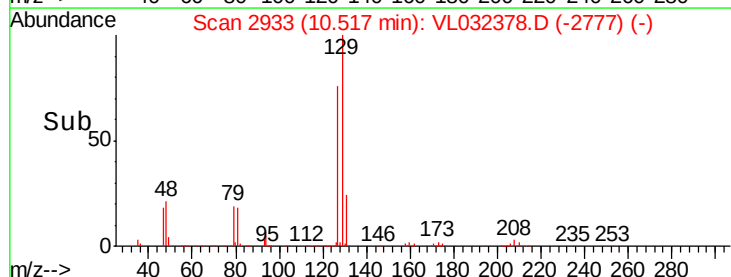
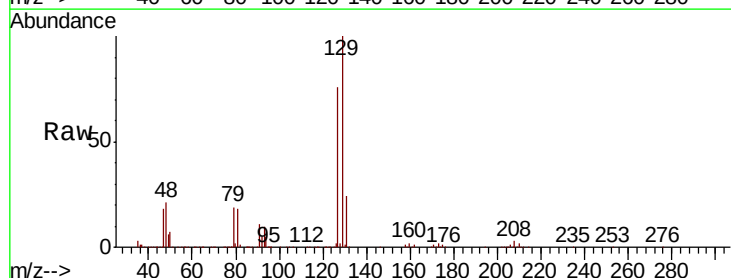
Acq: 16 Aug 2018 14:23

Tgt Ion: 129 Resp: 1857105

Ion Ratio Lower Upper

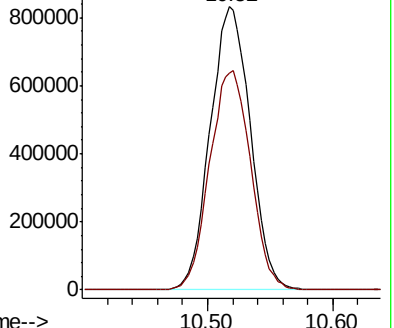
129 100

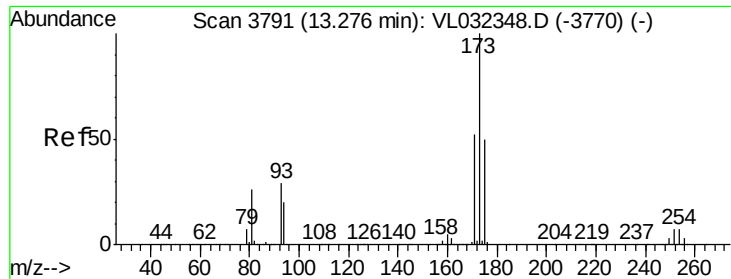
127 79.0 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





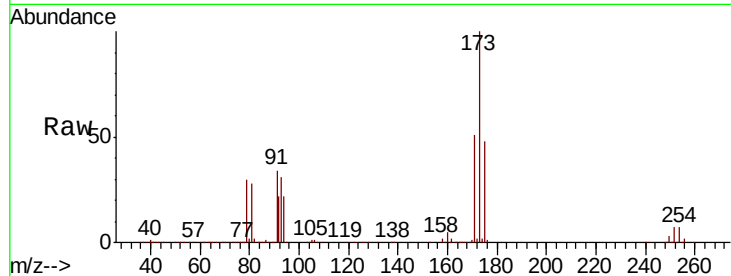
#49
Bromoform
Concen: 10.63 ppbv
RT: 13.27 min Scan# 3789
Delta R.T. -0.01 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	39.3	58.9
171	52.3	41.9	62.9

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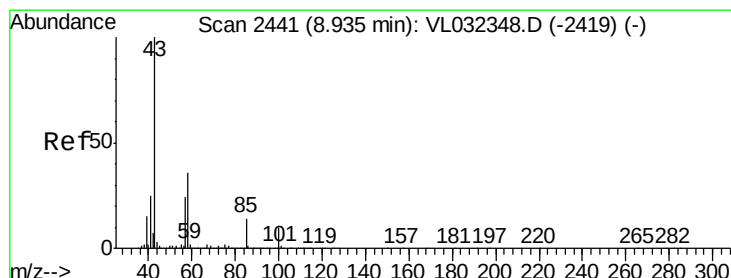
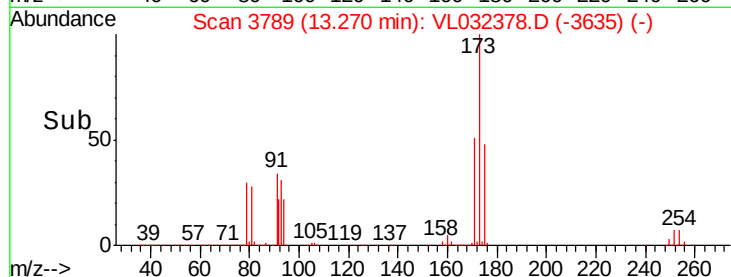
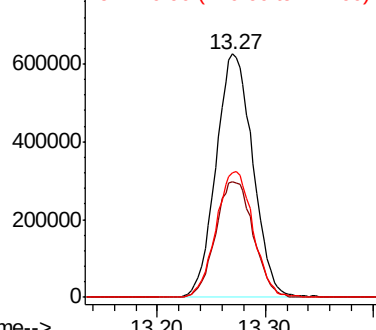


Abundance

Ion 172.90 (172.60 to 173.60): V

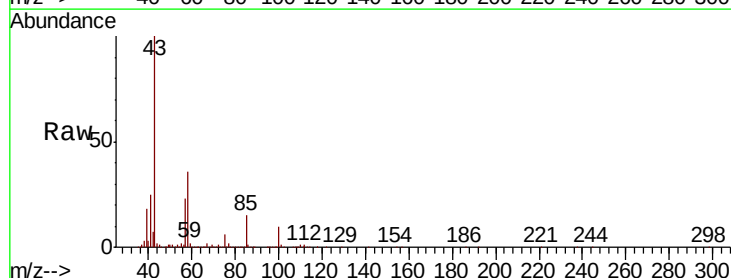
Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50
4-Methyl-2-Pentanone
Concen: 10.32 ppbv
RT: 8.93 min Scan# 2439
Delta R.T. -0.01 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

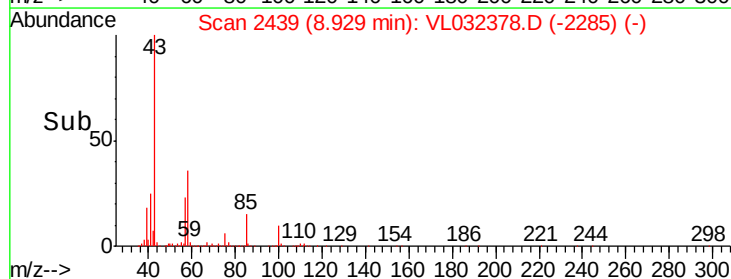
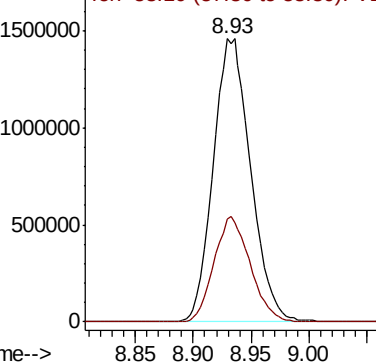
Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.9	43.3

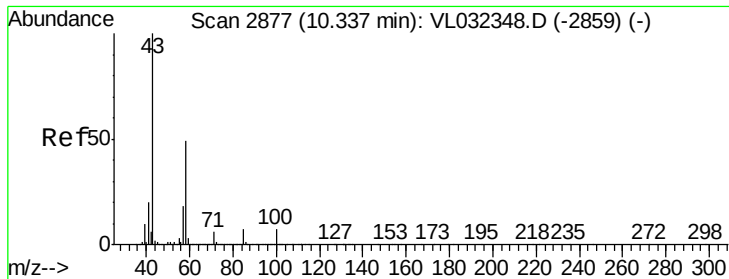


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 12.06 ppbv

RT: 10.33 min Scan# 2876

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2682306

Ion Ratio Lower Upper

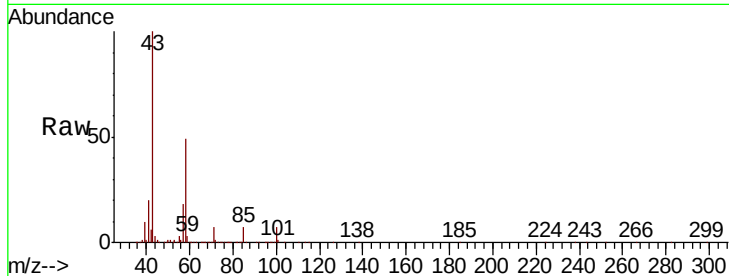
43 100

58 49.0 39.5 59.3

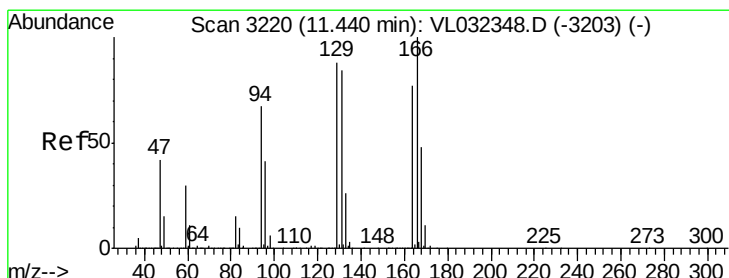
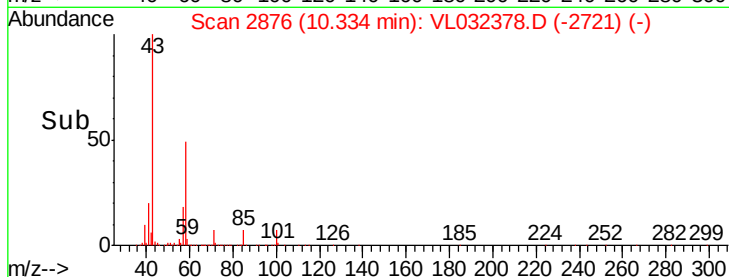
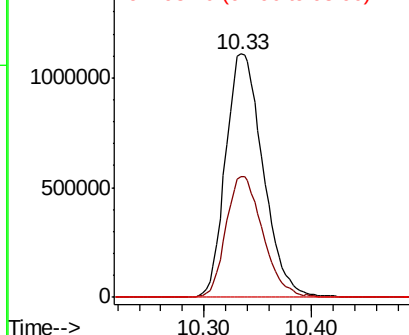
98 0.1 0.3 0.5#

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.56 ppbv

RT: 11.44 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Tgt Ion: 164 Resp: 851281

Ion Ratio Lower Upper

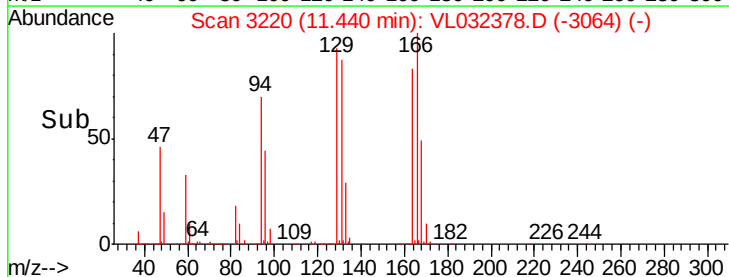
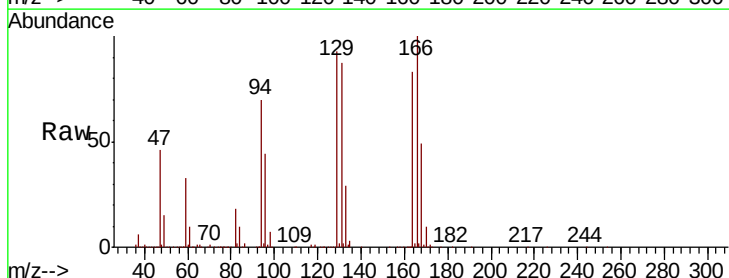
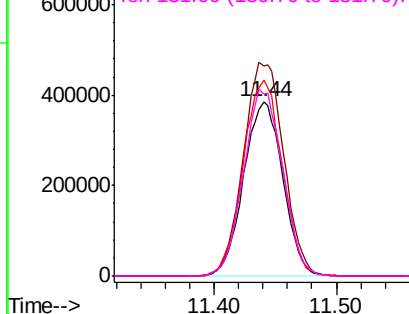
164 100

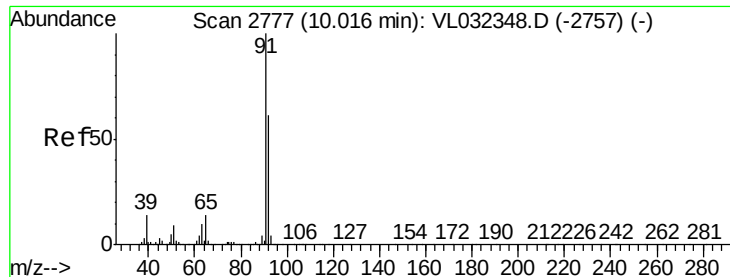
166 120.0 103.5 155.3

129 112.1 90.9 136.3

131 104.0 86.7 130.1

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.65 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3488547

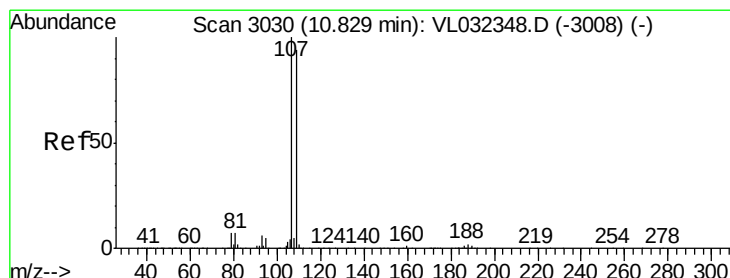
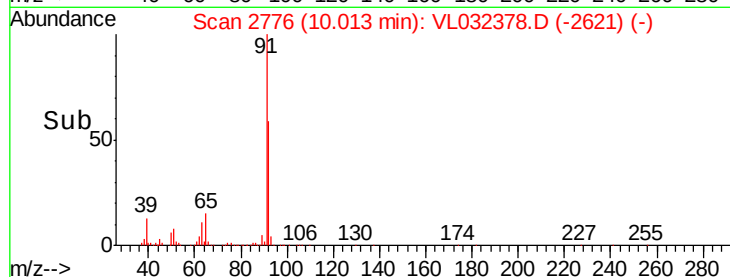
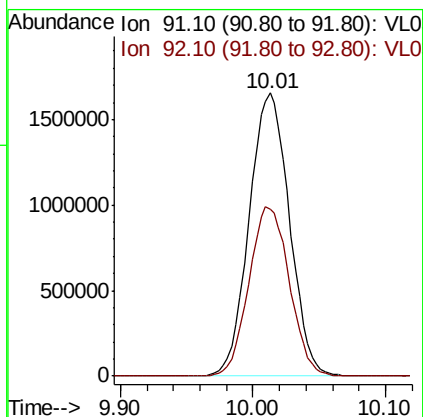
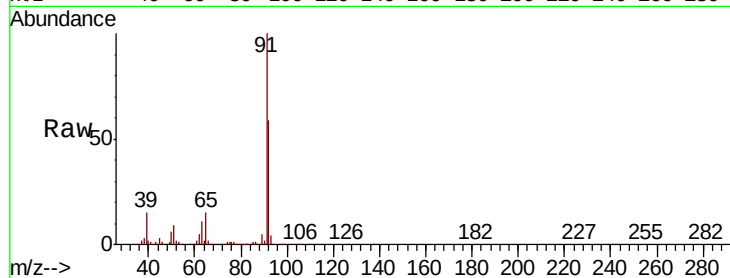
Ion Ratio Lower Upper

91 100

92 60.3 48.7 73.1

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#54

1,2-Dibromoethane

Concen: 10.69 ppbv

RT: 10.83 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VL032378.D

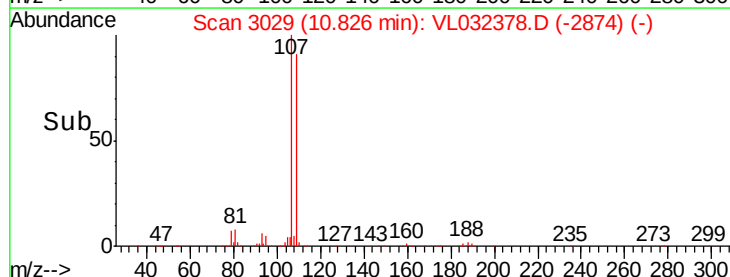
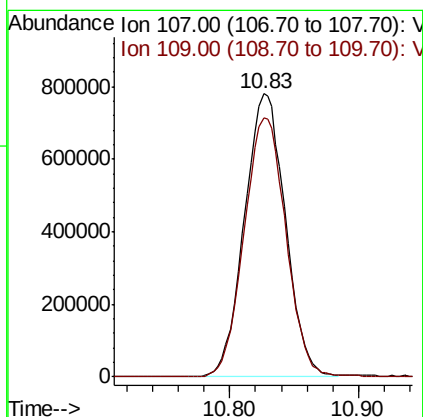
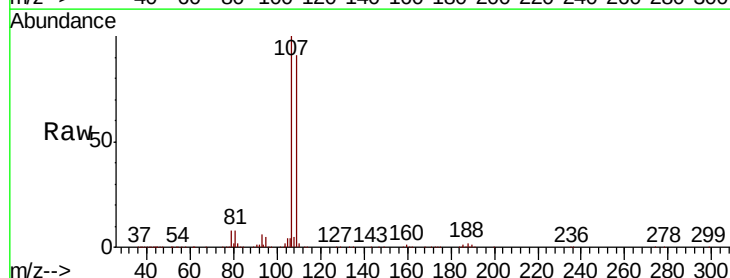
Acq: 16 Aug 2018 14:23

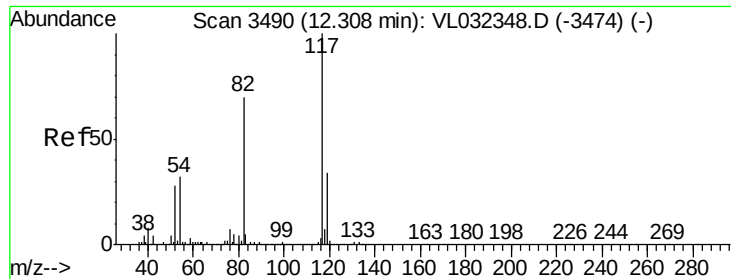
Tgt Ion: 107 Resp: 1724796

Ion Ratio Lower Upper

107 100

109 91.4 74.9 112.3





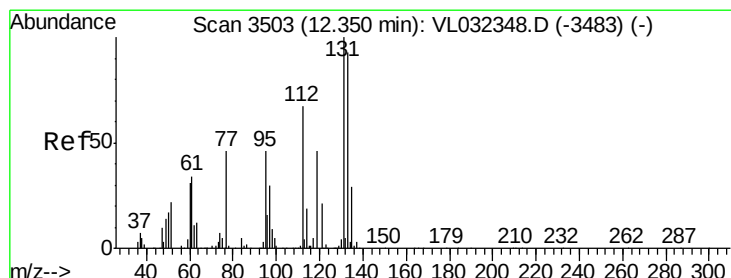
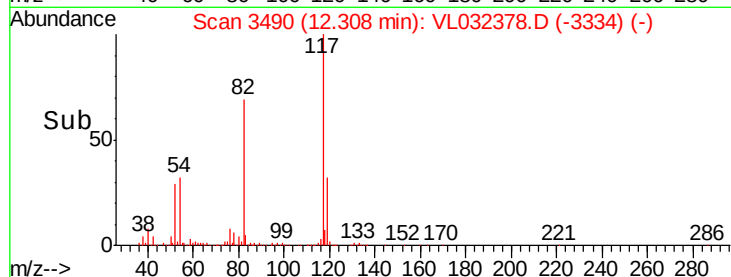
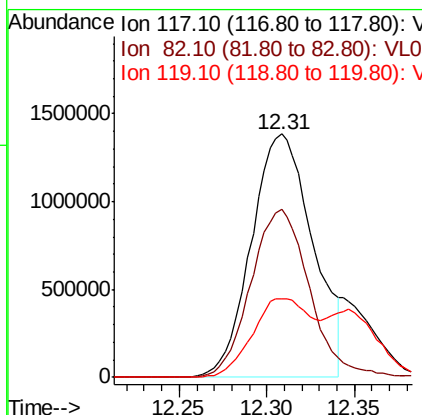
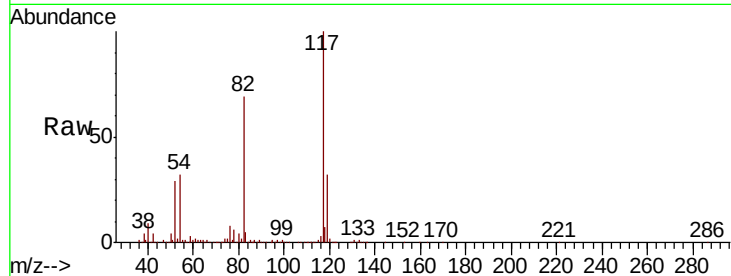
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.31 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.1	55.1	82.7
119	54.3	46.0	69.0

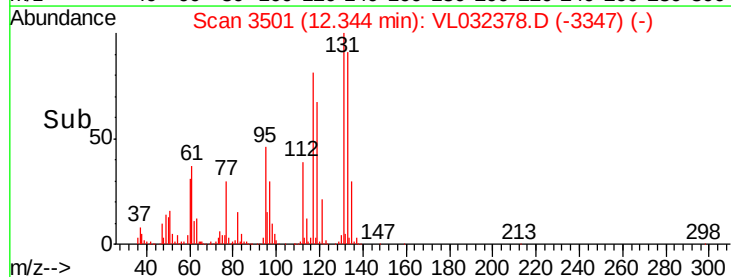
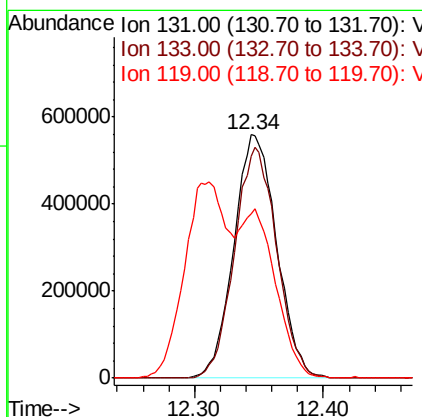
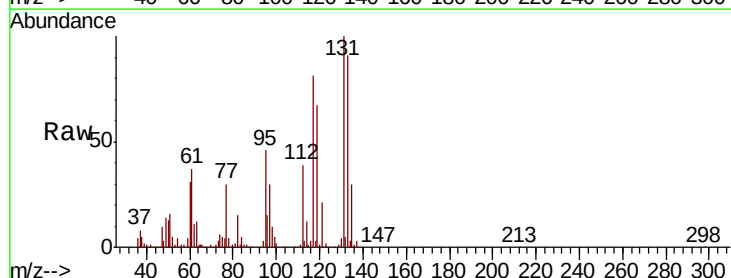
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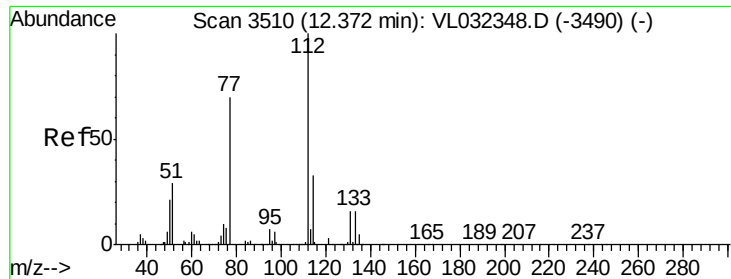
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.21 ppbv
RT: 12.34 min Scan# 3501
Delta R.T. -0.01 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.9	75.7	113.5
119	142.6	116.0	174.0





#57

Chlorobenzene

Concen: 8.95 ppbv

RT: 12.37 min Scan# 3509

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 112 Resp: 2278849

Ion Ratio Lower Upper

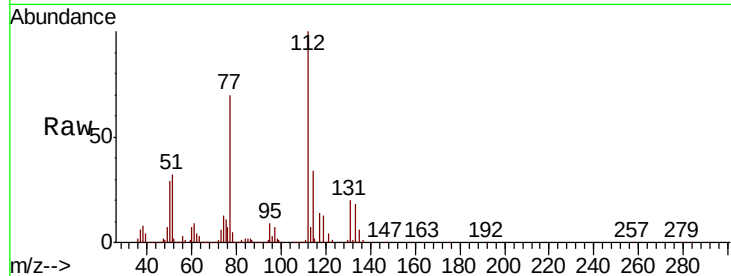
112 100

77 69.6 56.6 84.8

114 33.6 29.4 36.0

Manual Integrations
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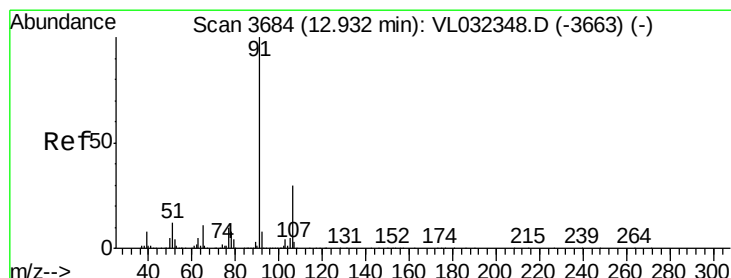
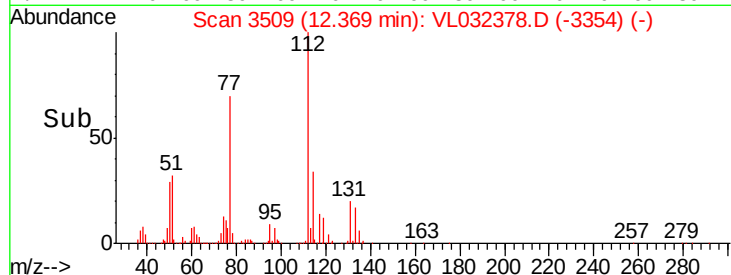
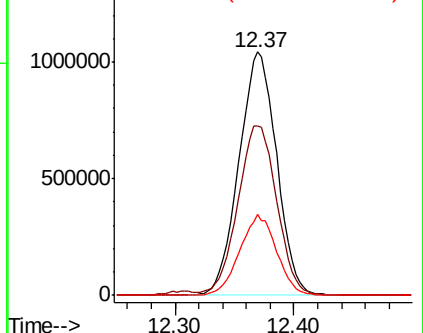
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8/28/2018 2:52:58 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.49 ppbv

RT: 12.93 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VL032378.D

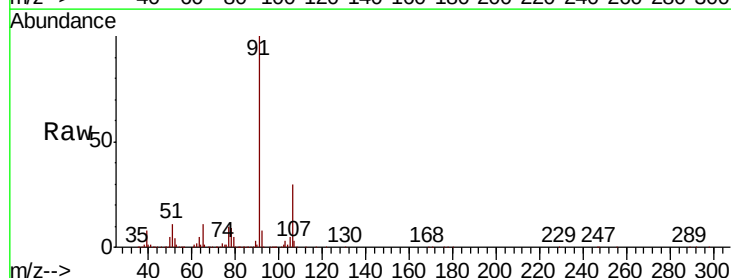
Acq: 16 Aug 2018 14:23

Tgt Ion: 91 Resp: 4269769

Ion Ratio Lower Upper

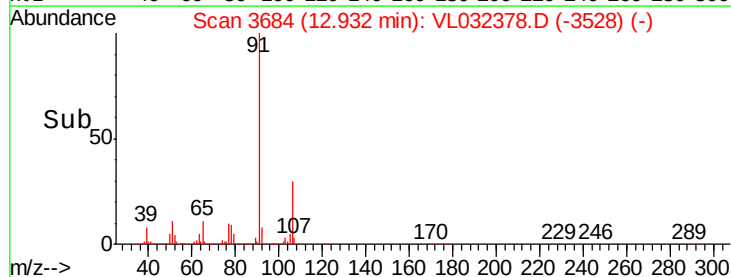
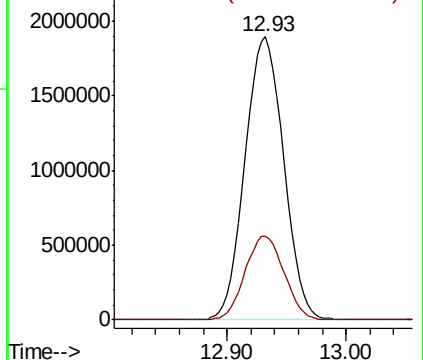
91 100

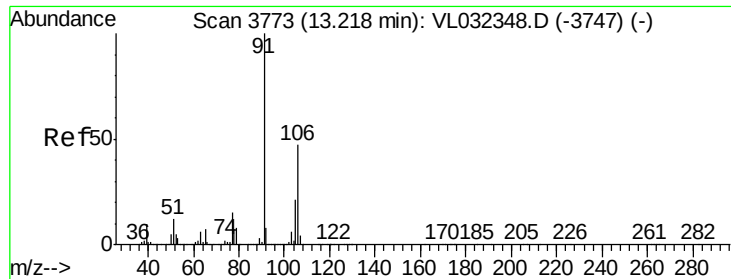
106 29.6 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





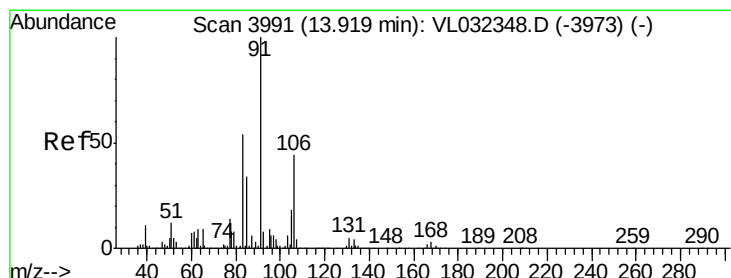
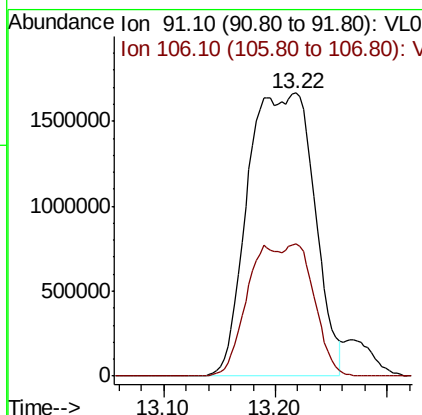
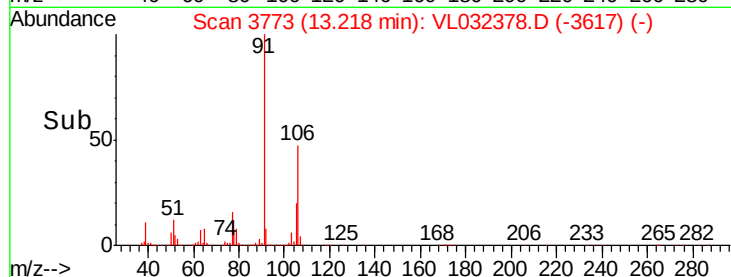
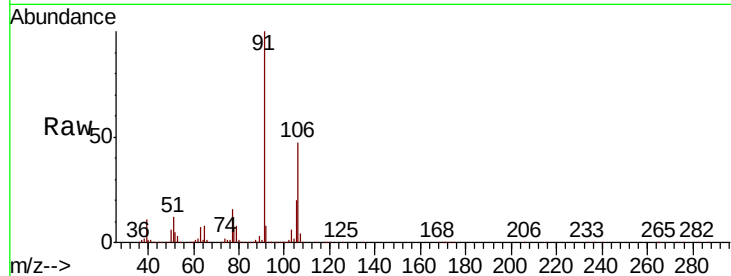
#59
m/p-Xylene
Concen: 19.81 ppbv m
RT: 13.22 min Scan# 3773
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 6850280
Ion Ratio Lower Upper
91 100
106 45.4 37.0 55.4

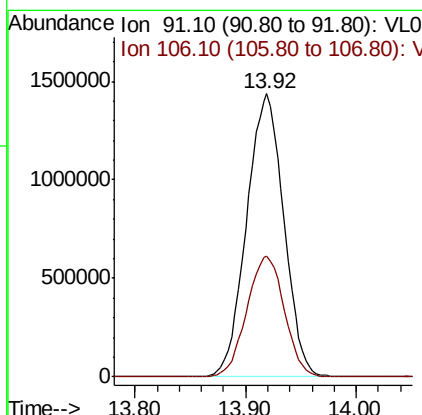
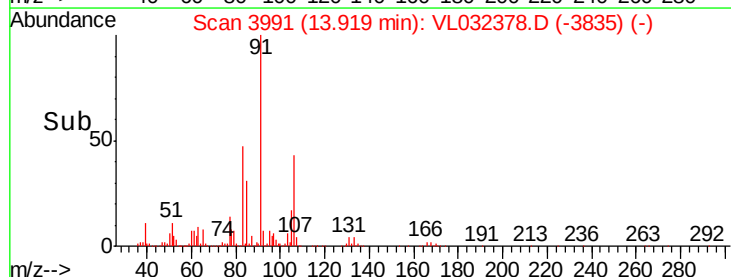
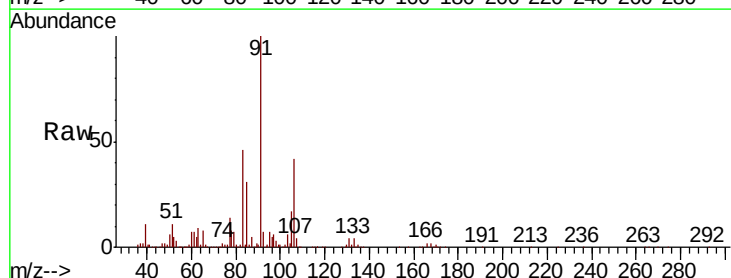
Manual Integrations
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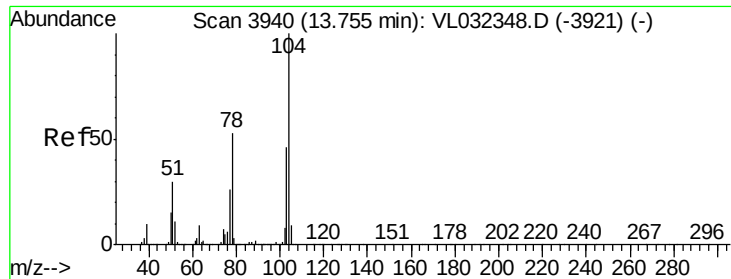
MMDadoda
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#60
o-Xylene
Concen: 9.84 ppbv
RT: 13.92 min Scan# 3991
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Tgt Ion: 91 Resp: 3344750
Ion Ratio Lower Upper
91 100
106 43.2 22.3 66.8





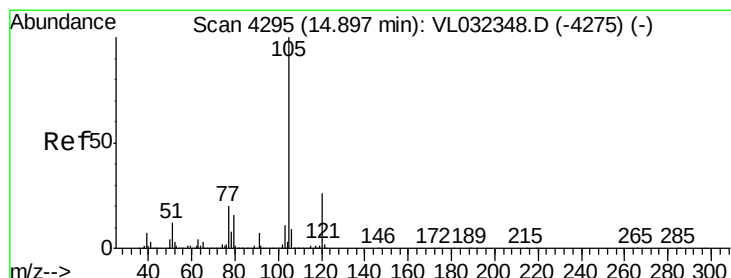
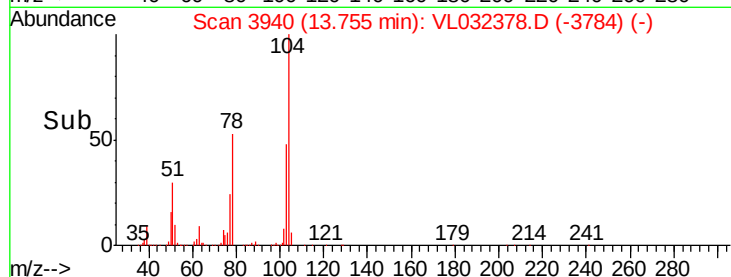
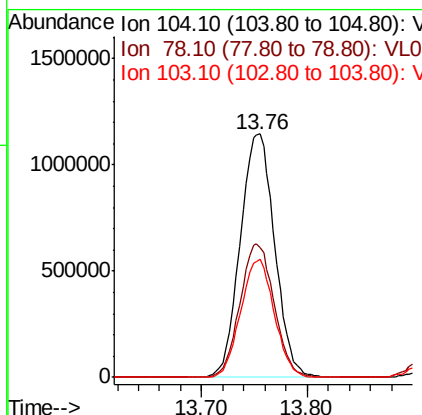
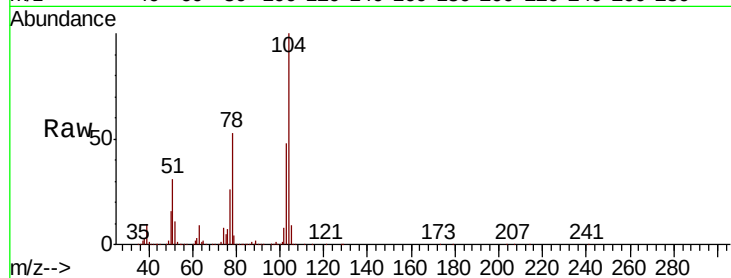
#61
Stvrene
Concen: 10.95 ppbv
RT: 13.76 min Scan# 3940
Delta R.T. 0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.7	42.6	64.0
103	47.3	38.0	57.0

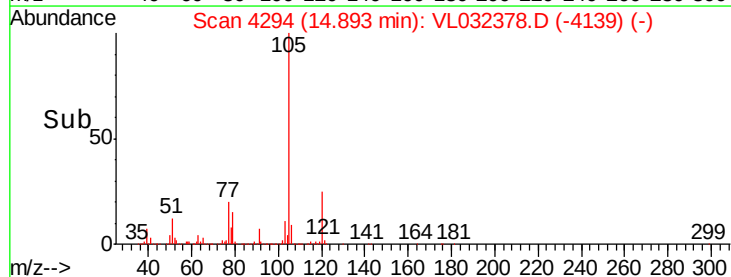
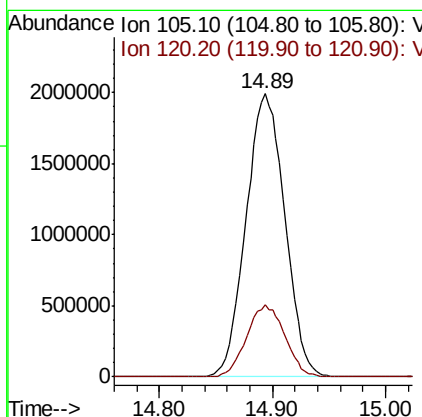
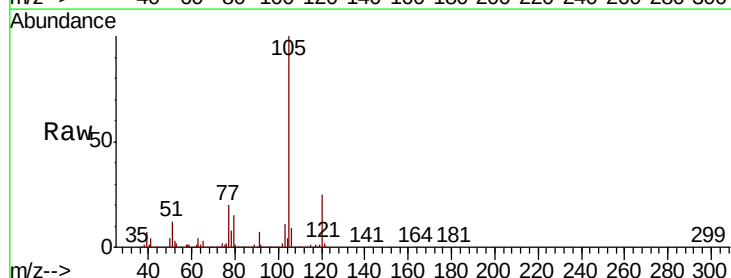
Manual Integrations
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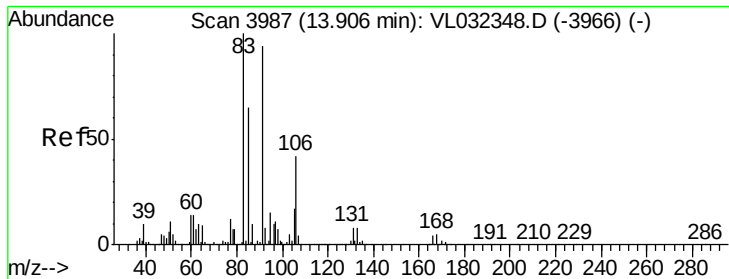
MMDadoda
8/28/2018 2:52:58 PM



#62
Isopropylbenzene
Concen: 9.83 ppbv
RT: 14.89 min Scan# 4294
Delta R.T. -0.00 min
Lab File: VL032378.D
Acq: 16 Aug 2018 14:23

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.1	20.6	30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 8.57 ppbv

RT: 13.91 min Scan# 3987

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2450721

Ion Ratio Lower Upper

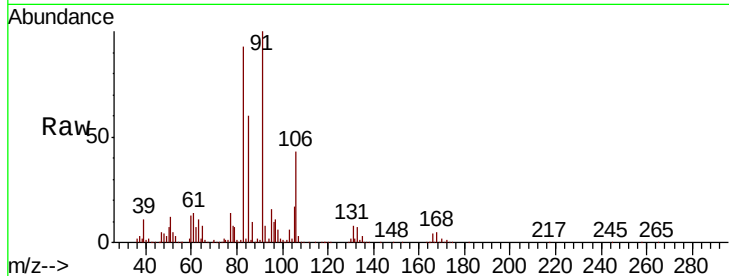
83 100

131 8.6 4.3 12.8

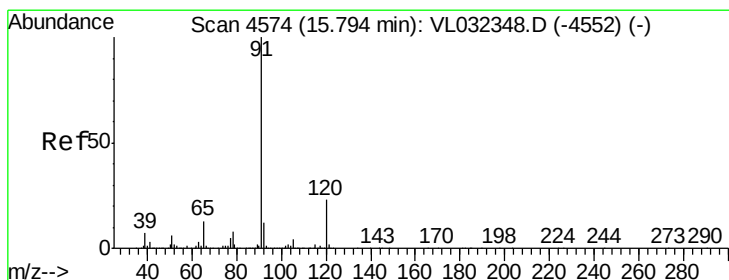
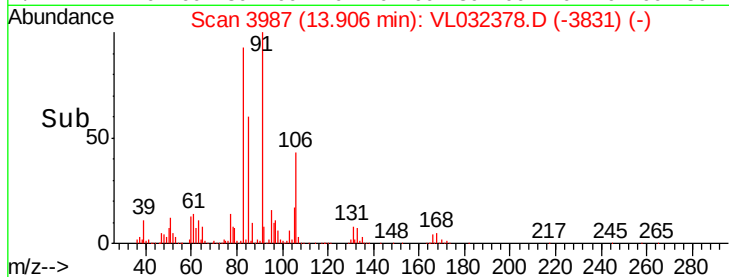
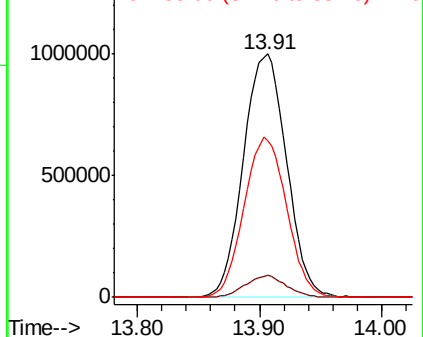
85 65.3 32.4 97.2

Manual Integrations
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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.77 ppbv

RT: 15.79 min Scan# 4573

Delta R.T. -0.00 min

Lab File: VL032378.D

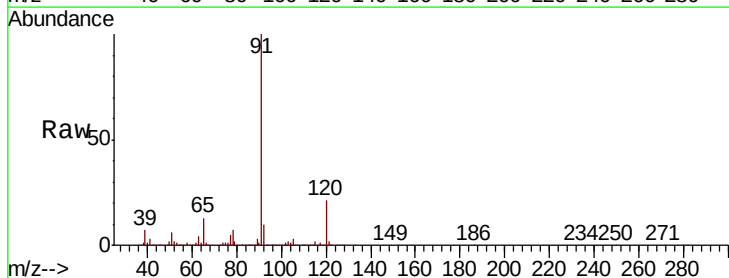
Acq: 16 Aug 2018 14:23

Tgt Ion: 120 Resp: 1223717

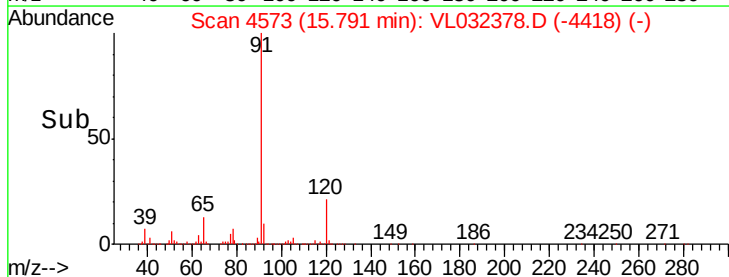
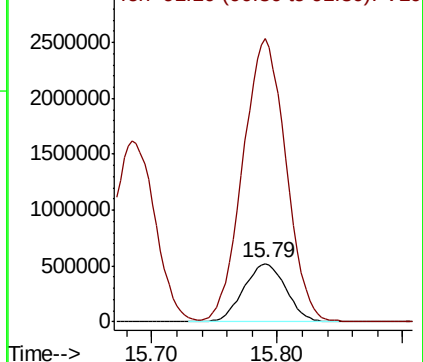
Ion Ratio Lower Upper

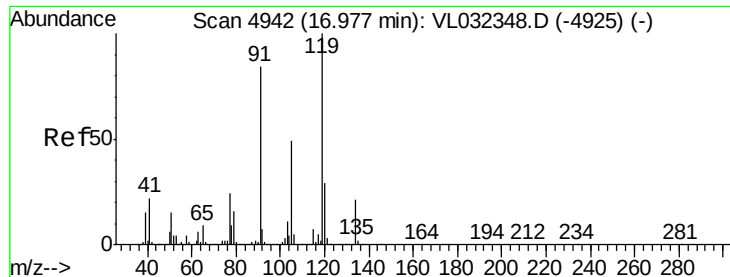
120 100

91 495.3 382.2 573.2



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 9.57 ppbv

RT: 16.98 min Scan# 4942

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 3956768

Ion Ratio Lower Upper

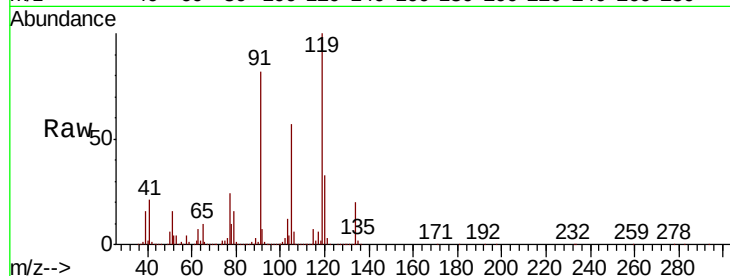
119 100

91 85.1 67.4 101.0

134 19.5 15.8 23.6

Manual Integrations
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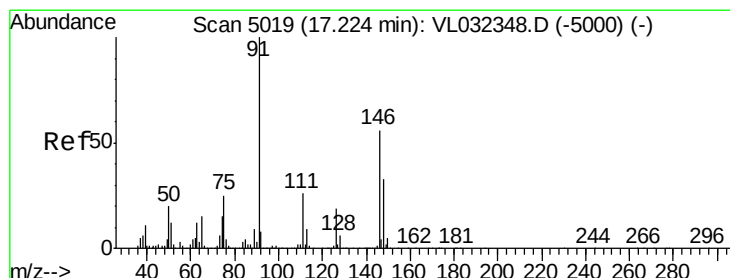
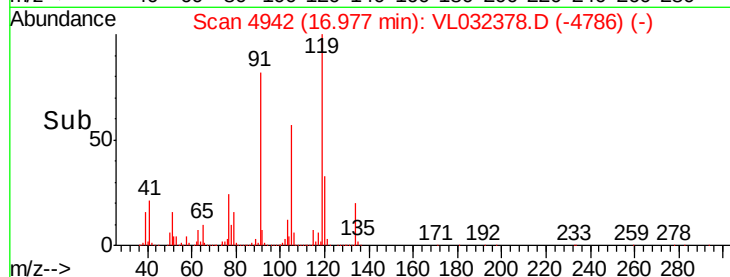
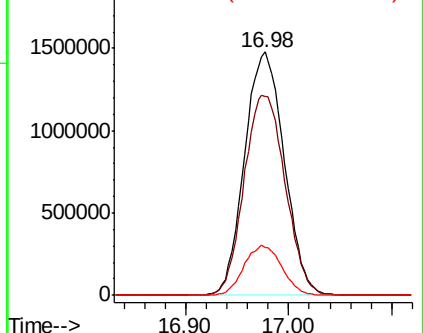
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.93 ppbv

RT: 17.22 min Scan# 5018

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

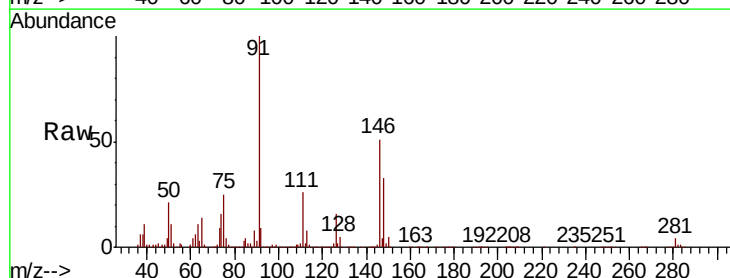
Tgt Ion: 91 Resp: 2673810

Ion Ratio Lower Upper

91 100

126 17.1 14.2 21.4

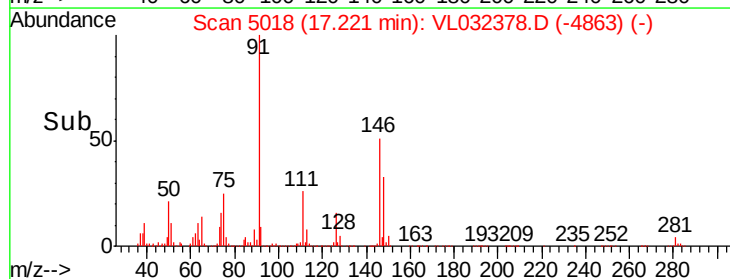
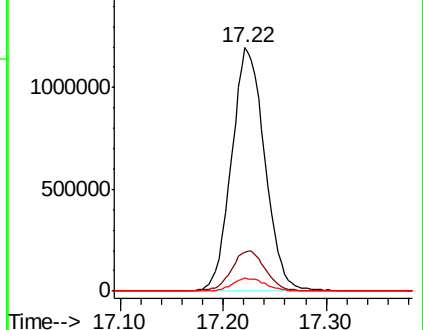
128 5.3 4.5 6.7

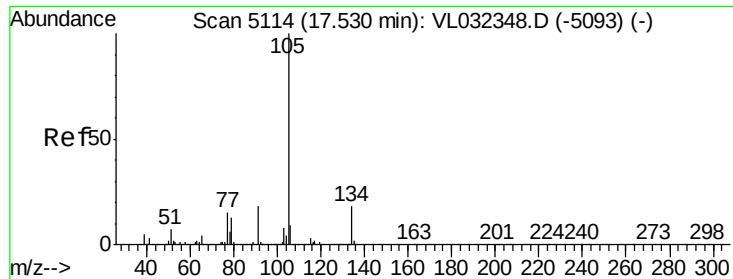


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.68 ppbv

RT: 17.53 min Scan# 5113

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 5950398

Ion Ratio Lower Upper

105 100

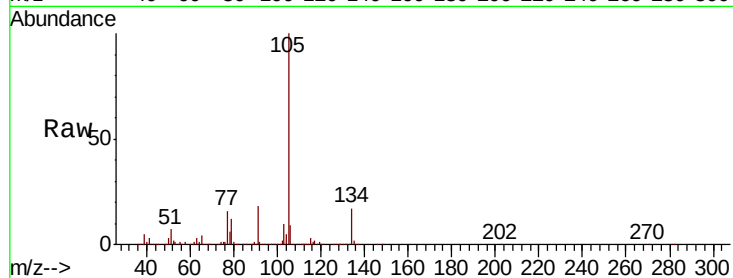
134 17.5 14.4 21.6

Manual Integrations

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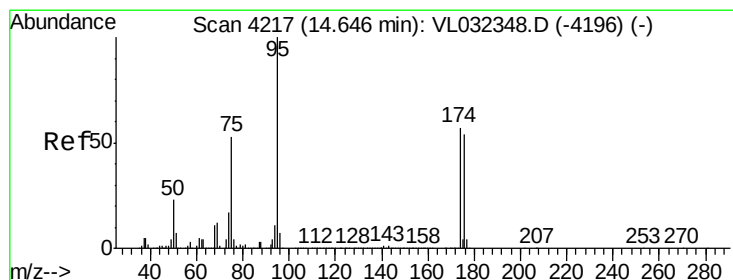
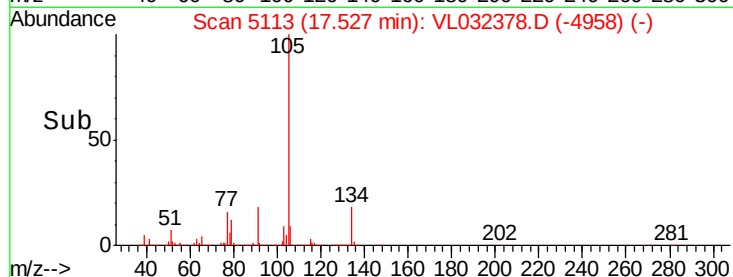
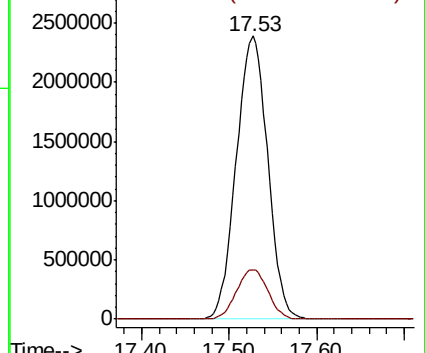
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.85 ppbv

RT: 14.65 min Scan# 4217

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

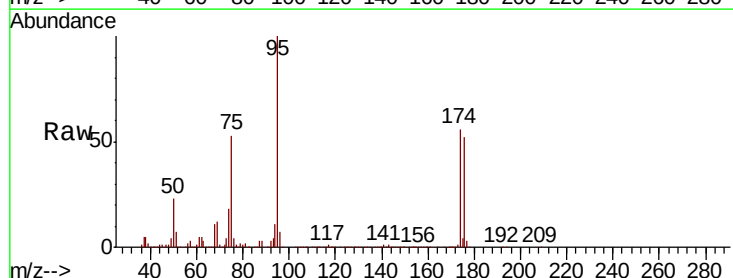
Tgt Ion: 95 Resp: 2543265

Ion Ratio Lower Upper

95 100

174 56.0 46.2 69.4

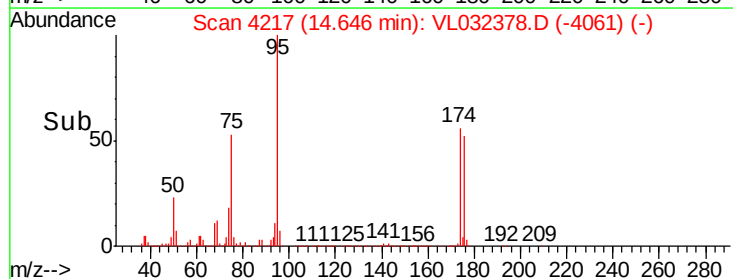
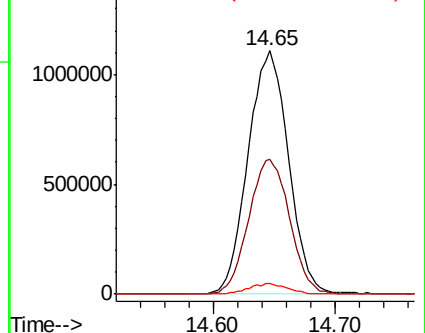
175 4.2 3.4 5.0

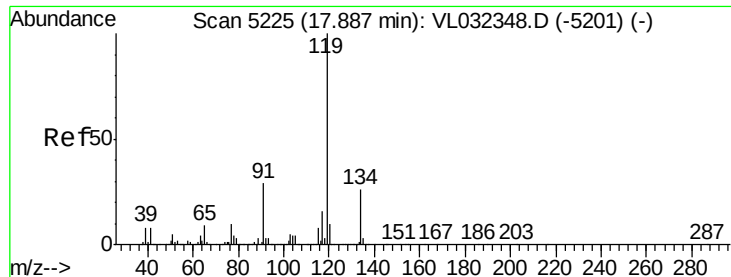


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





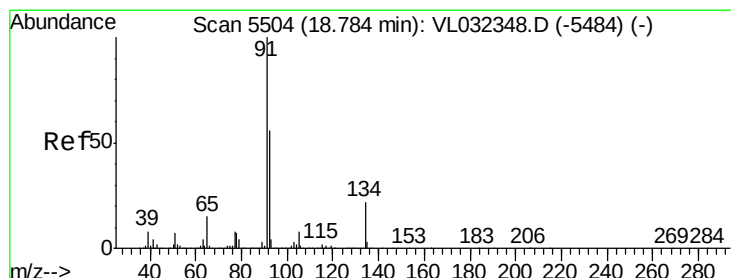
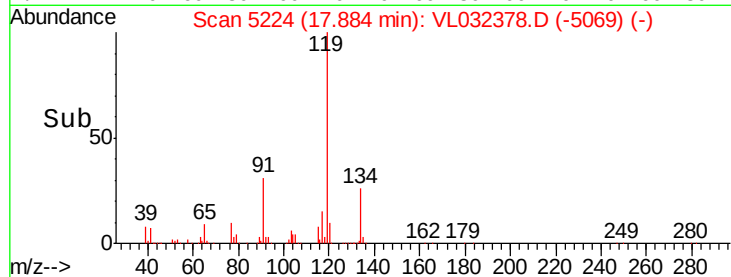
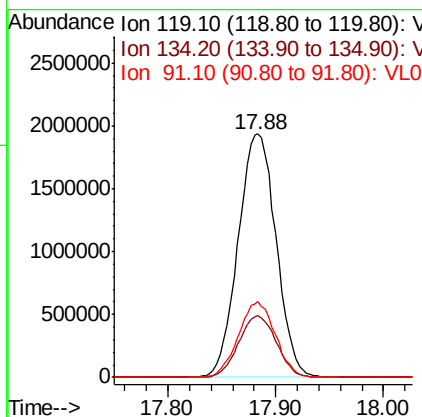
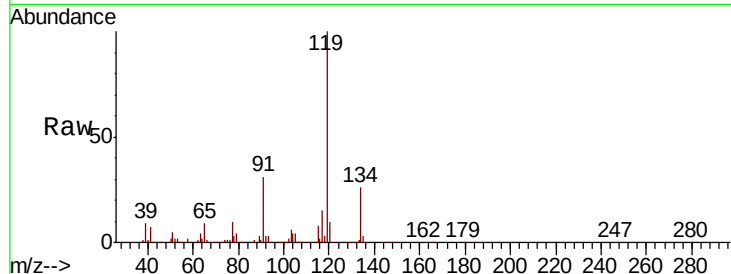
#69
 p-Isopropyltoluene
 Concen: 10.06 ppbv
 RT: 17.88 min Scan# 5224
 Delta R.T. -0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.4	30.6
91	30.3	23.6	35.4

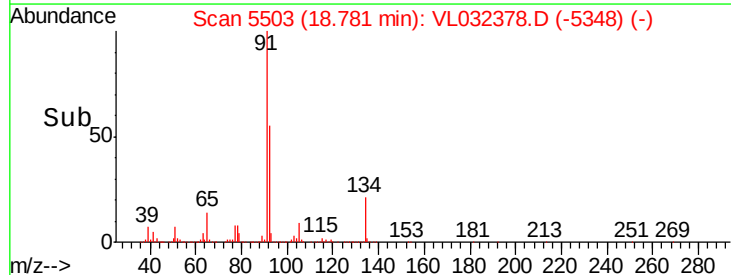
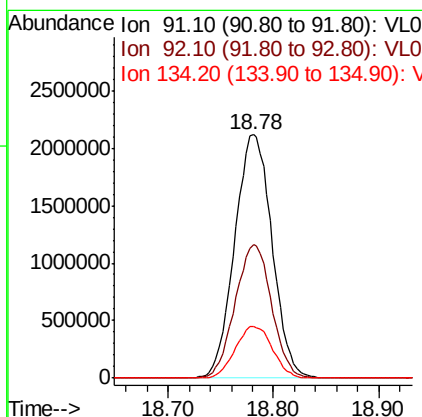
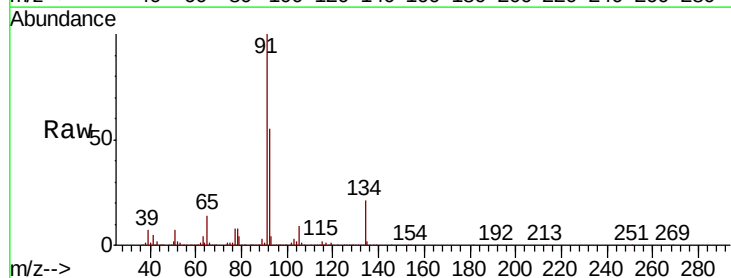
Manual Integrations
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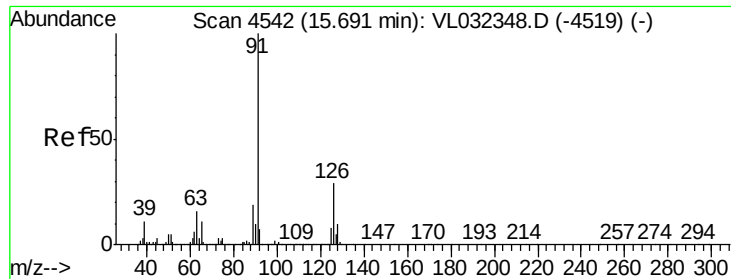
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#70
 n-Butylbenzene
 Concen: 10.08 ppbv
 RT: 18.78 min Scan# 5503
 Delta R.T. -0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.7	43.9	65.9
134	21.2	17.3	25.9





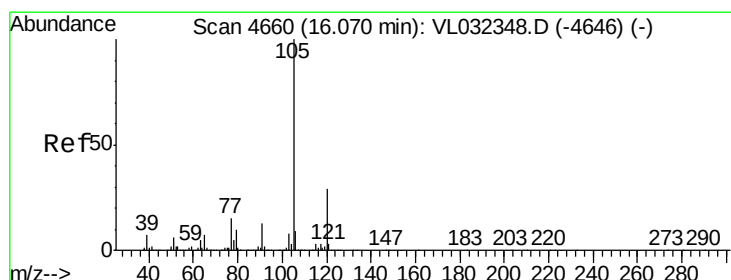
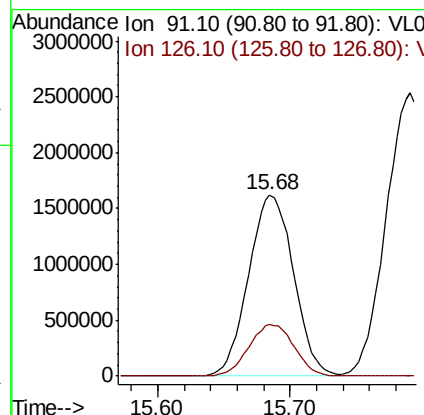
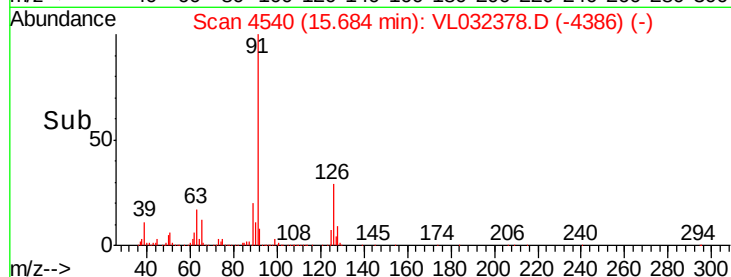
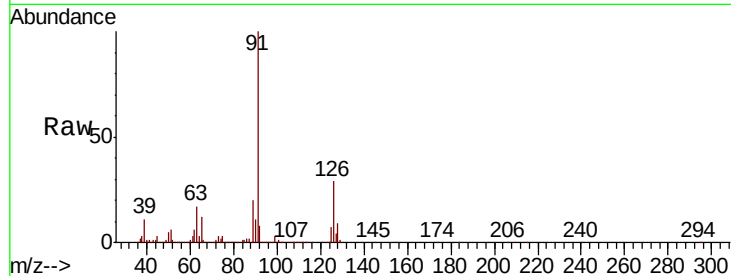
#71
 2-Chlorotoluene
 Concen: 10.23 ppbv
 RT: 15.68 min Scan# 4540
 Delta R.T. -0.01 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 91 Resp: 3829664
 Ion Ratio Lower Upper
 91 100
 126 28.8 11.8 47.2

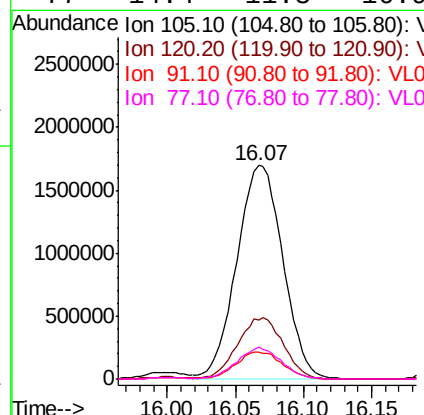
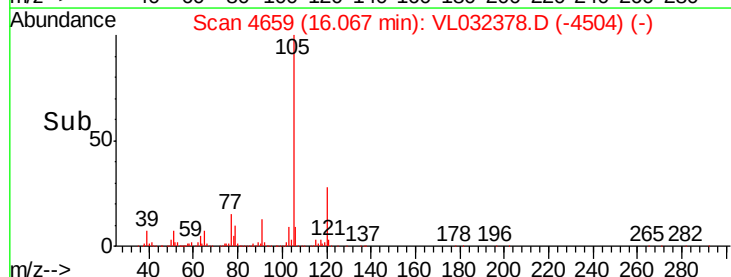
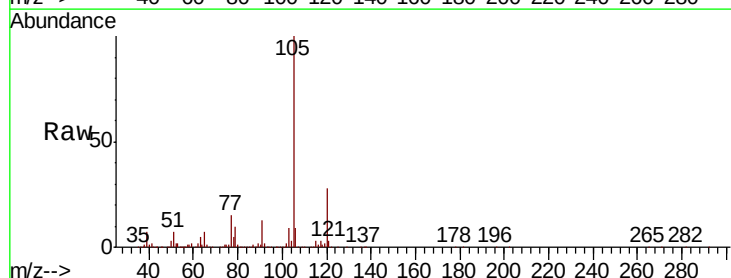
Manual Integrations
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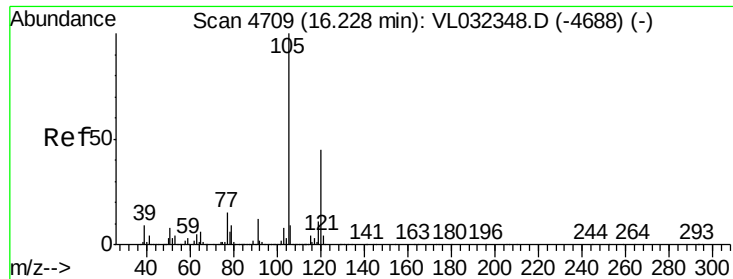
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 8/28/2018 2:52:58 PM



#72
 4-Ethyltoluene
 Concen: 10.48 ppbv
 RT: 16.07 min Scan# 4659
 Delta R.T. -0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Tgt Ion: 105 Resp: 3971773
 Ion Ratio Lower Upper
 105 100
 120 28.6 23.4 35.0
 91 12.9 10.0 15.0
 77 14.4 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.37 ppbv

RT: 16.22 min Scan# 4708

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3779564

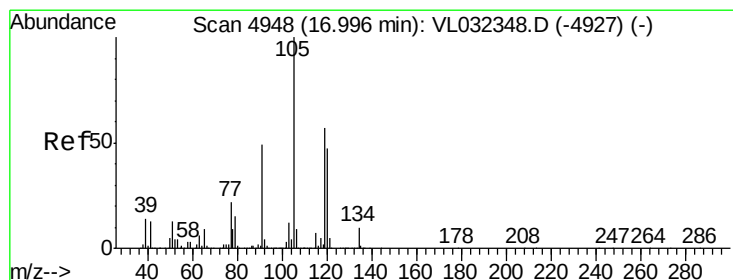
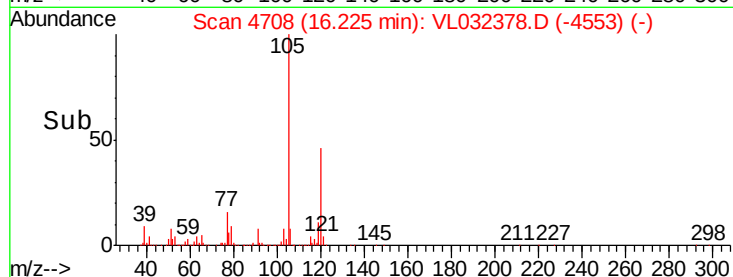
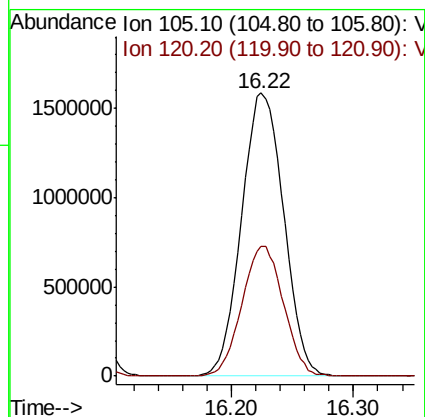
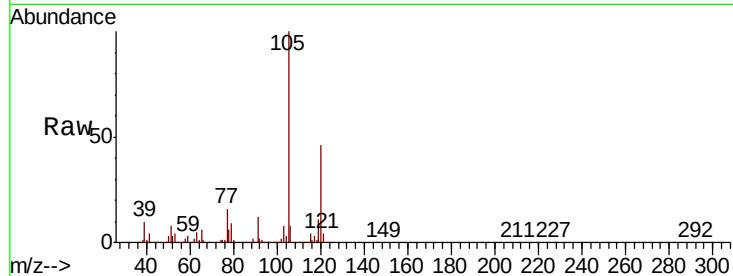
Ion Ratio Lower Upper

105 100

120 45.7 36.3 54.5

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 9.61 ppbv

RT: 17.00 min Scan# 4948

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Tgt Ion:105 Resp: 3728334

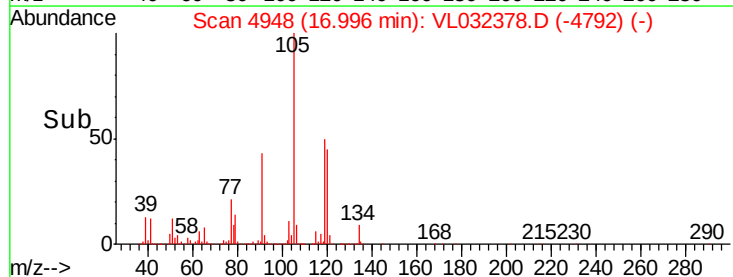
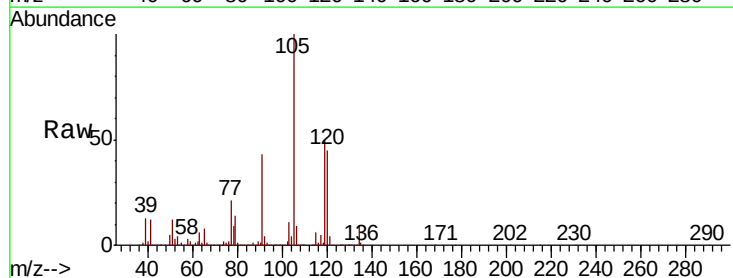
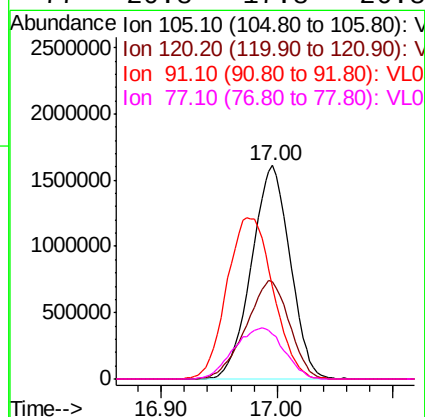
Ion Ratio Lower Upper

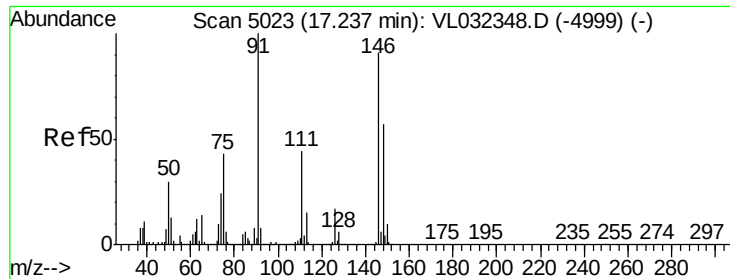
105 100

120 45.3 37.6 56.4

91 42.8 39.9 59.9

77 20.8 17.8 26.8





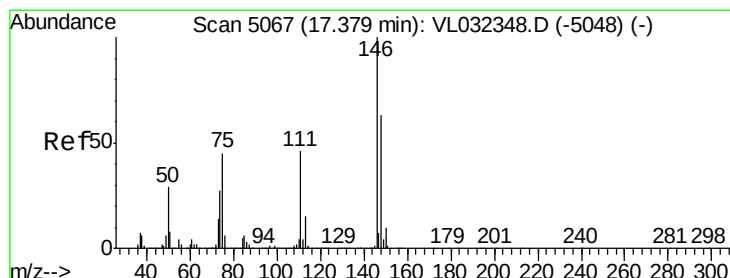
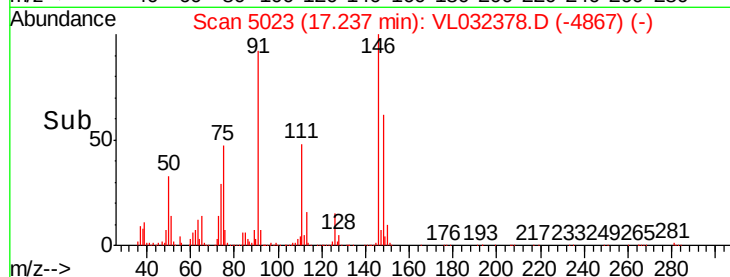
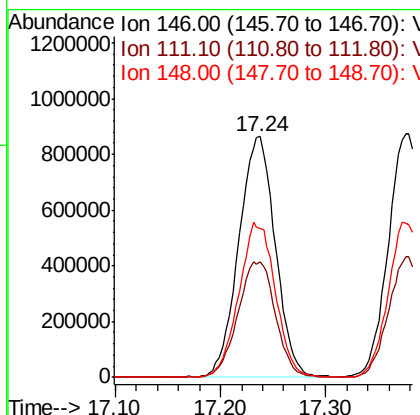
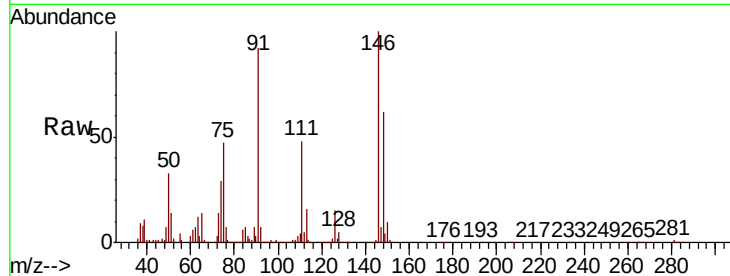
#75
 1,3-Dichlorobenzene
 Concen: 8.92 ppbv
 RT: 17.24 min Scan# 5023
 Delta R.T. 0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	24.6	73.8
148	64.1	32.0	96.0

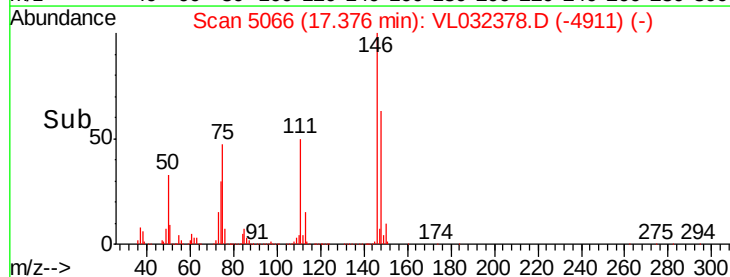
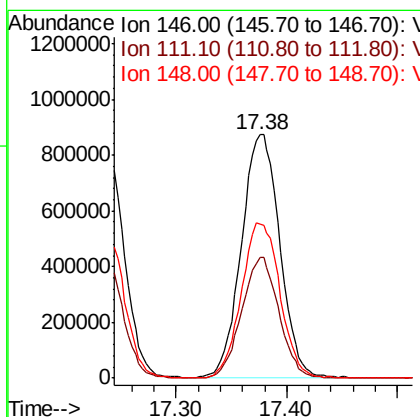
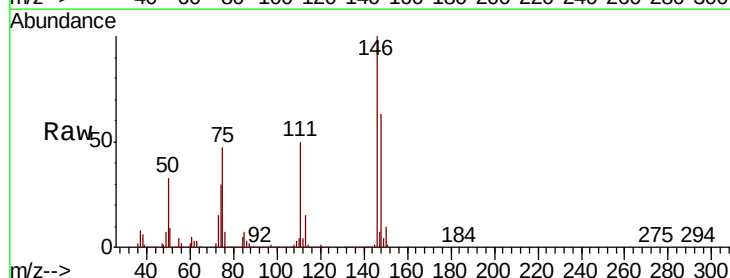
Manual Integrations
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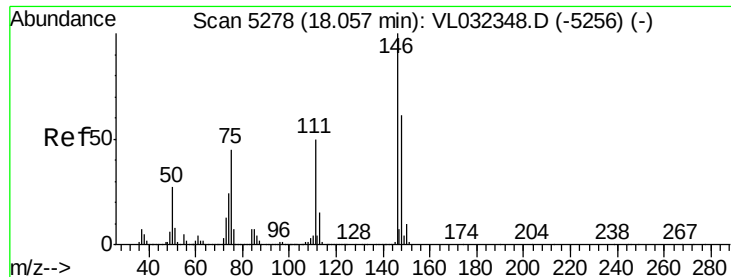
MMDadoda
 8/28/2018 2:52:58 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.47 ppbv
 RT: 17.38 min Scan# 5066
 Delta R.T. -0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.2	23.8	71.4
148	64.8	32.2	96.6





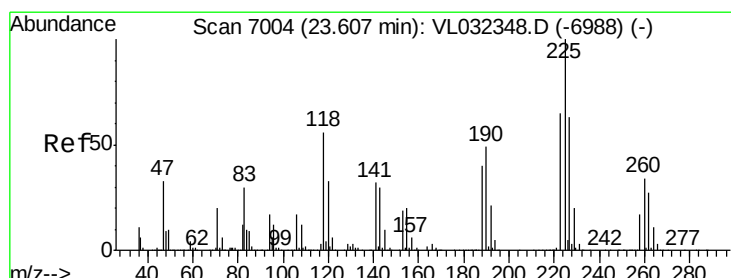
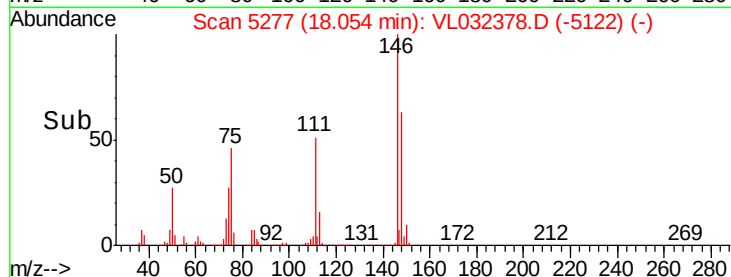
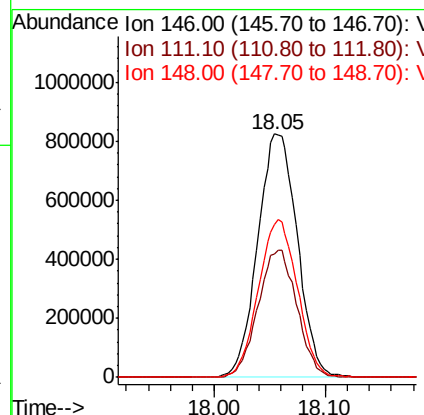
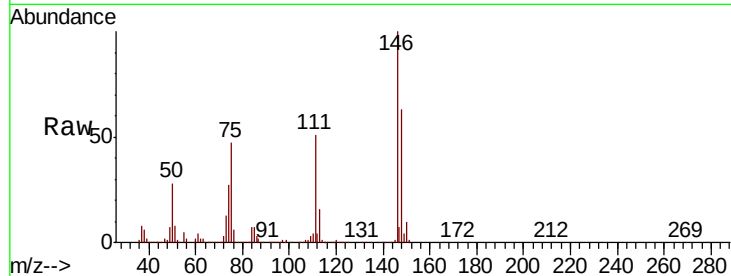
#77
 1,2-Dichlorobenzene
 Concen: 9.19 ppbv
 RT: 18.05 min Scan# 5277
 Delta R.T. -0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 2046647
 Ion Ratio Lower Upper
 146 100
 111 51.6 25.2 75.6
 148 63.8 31.8 95.4

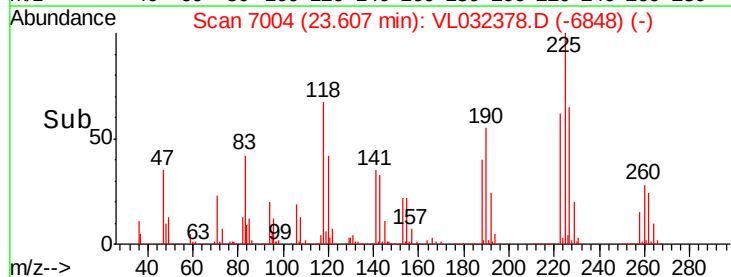
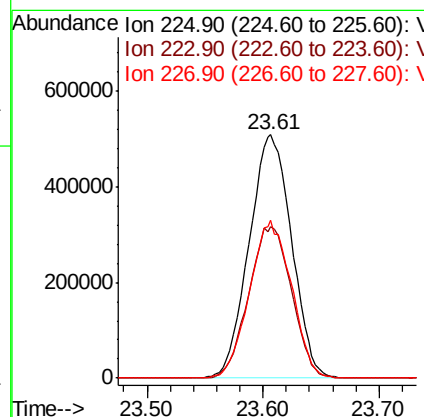
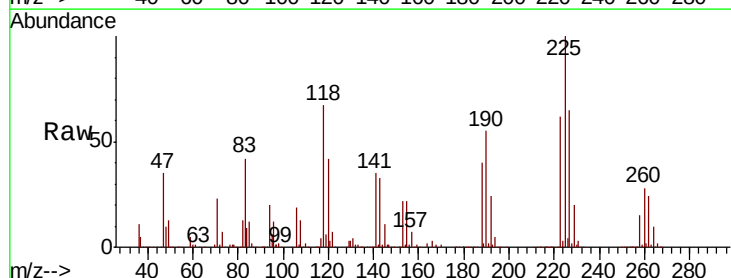
Manual Integrations
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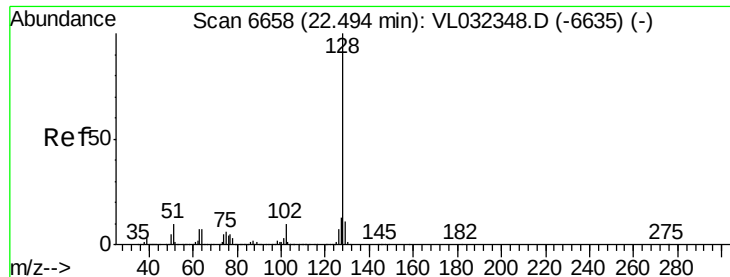
MMDadoda
 8/28/2018 2:52:58 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 17.31 ppbv
 RT: 23.61 min Scan# 7004
 Delta R.T. 0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Tgt Ion:225 Resp: 1294479
 Ion Ratio Lower Upper
 225 100
 223 63.0 50.6 76.0
 227 63.8 51.0 76.6





#79

Naphthalene

Concen: 12.91 ppbv

RT: 22.49 min Scan# 6657

Delta R.T. -0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 3655844

Ion Ratio Lower Upper

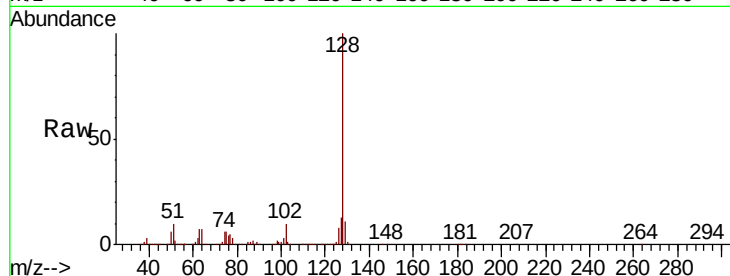
128 100

127 12.9 10.3 15.5

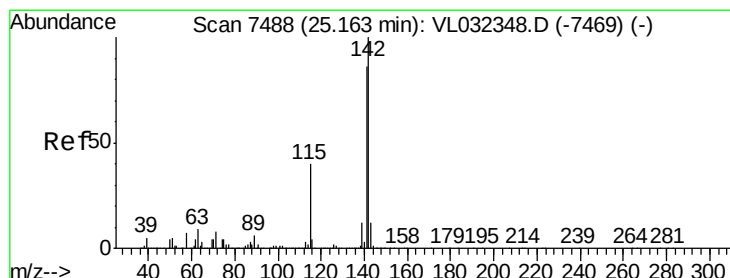
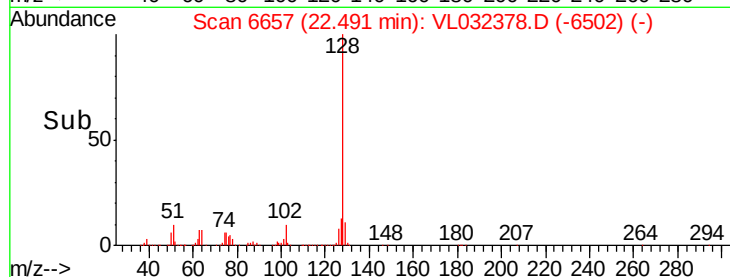
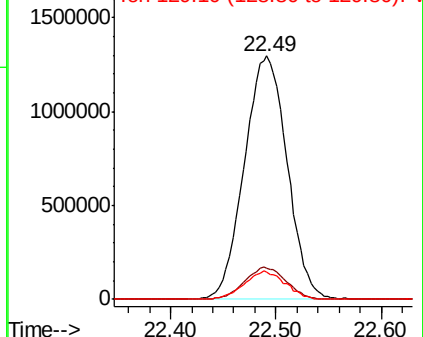
129 11.3 8.6 13.0

Manual Integrations
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 19.91 ppbv

RT: 25.16 min Scan# 7488

Delta R.T. 0.00 min

Lab File: VL032378.D

Acq: 16 Aug 2018 14:23

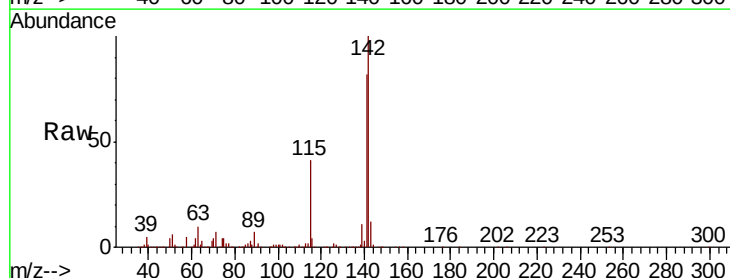
Tgt Ion:142 Resp: 1541116

Ion Ratio Lower Upper

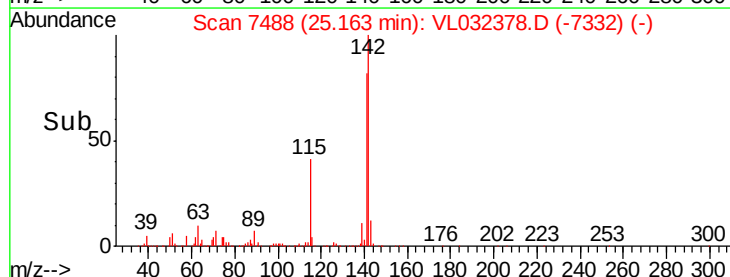
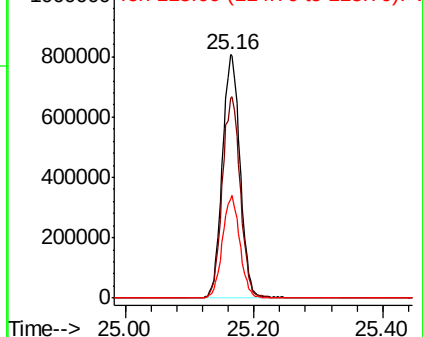
142 100

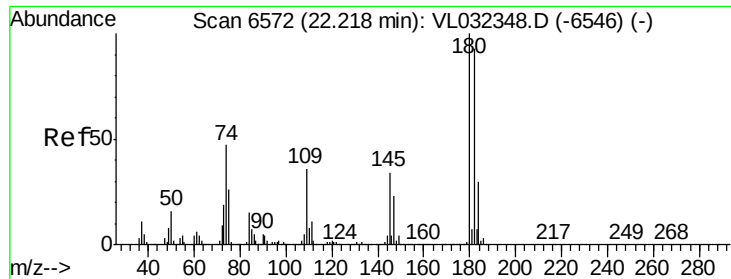
141 83.5 66.7 100.1

115 41.3 31.0 46.6



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





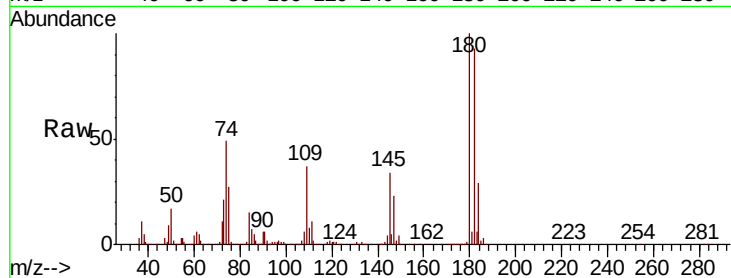
#81
 1,2,4-Trichlorobenzene
 Concen: 11.46 ppbv
 RT: 22.21 min Scan# 6571
 Delta R.T. -0.00 min
 Lab File: VL032378.D
 Acq: 16 Aug 2018 14:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.1	114.1
184	30.2	24.2	36.2

Manual Integrations
 APPROVED

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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

